



Overview Information

Funding Opportunity Title	Path to K Mentored Career Development Grant Request for Applications
Funding Opportunity Purpose	<p>The Ohio State University Center for Clinical and Translational Science (CCTS), the Office of Research, and the College of Medicine are seeking applicants to apply for the Path to K Career Development grant, whose purpose is to train clinical and/or translational investigators and prepare them for a successful K grant application. The CCTS, Office of Research, and College of Medicine Path to K Program supports the career development of investigators who have made a commitment to conduct either patient-oriented or translational research. The Path to K Grant is available for a period of up to two years (contingent on satisfactory progress).</p> <p>Early career junior faculty on the tenure or clinical track from the following health sciences colleges at the Ohio State University are eligible to apply: College of Dentistry, College of Medicine, College of Nursing, College of Optometry, College of Pharmacy, College of Public Health and College of Veterinary Medicine.</p> <p>The CCTS seeks proposals that address scientific questions consistent with the CCTS mission to transform and advance the discipline of clinical and translational research at The Ohio State University. Proposals may come from any stage of research along the path from the biological basis of health and disease to interventions that improve the health of individuals and the public, as described in NIH NCATS' Translational Science Spectrum.</p>

Key Dates*

Release Date	July 1, 2024
Letter of Intent Due Date	July 15, 2024, midnight at < https://go.osu.edu/pathtokloi >
Full Application Due Date	July 31, 2024, midnight at < https://go.osu.edu/pathtokapplication >
Study Section	August 2024
Notice of Award Date	August 26, 2024, or as close as possible
Funding Period	October 1, 2024, to September 30, 2025; renewable for one year thereafter based on satisfactory progress.

*some dates may vary because of unanticipated circumstances

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Information Session: Path to K Career Development Grant

Date: July 9, 2024
Time: Noon to 1 PM
Place: Zoom
Register Here: https://go.osu.edu/path_to_k_info

Section I. Funding Opportunity Description

Purpose

The Path to K grant is designed to benefit a wide spectrum of clinical and/or translational researchers across Ohio State. The grant provides salary support to ensure protected time for mentored research and didactic training in clinical/ translational research across a wide variety of project topics and academic areas. The overall goal of the program is to equip early career investigators to advance on the path to be competitive for NIH K Career Development Grants (or equivalent).

The CCTS supports the full spectrum of clinical and translational research intended to have human applications. In this context, "translational" investigation is broadly defined. It includes, for example, laboratory research with potential human applications, "bench to bedside" research in which laboratory findings are studied in the human context, the interaction of small human studies with those in larger populations, and the translation of research into clinical practice and health policy.

Program preference will be given to junior faculty members on the tenure or clinical track with fewer than three years since their appointment, but junior faculty with three or more years since their appointment are eligible to apply.

It is anticipated that up to four grants will be made:

- Up to one grant will be awarded to applicants from the Colleges of Dentistry, Nursing, Optometry, Pharmacy, Public Health and Veterinary Medicine. The funds for these awards are courtesy of the Ohio State Office of Research.
- Up to one grant will be awarded to physician-scientists from the College of Medicine. These grants are funded by the College of Medicine Office of Research and the Richard P. and Marie R. Bremer Medical Research Fund and the William H. Davis Endowment for Basic Medical Research.

Applicants will be selected based on a competitive application process in which the following will be key review considerations that determine funding:

- The transdisciplinary/translational science and quality of the research project
- The qualification of the applicant
- The experience of the mentorship team
- The quality of the training plan
- The probability of the proposed project developing into a competitive K grant application

A Study Section will make recommendations to the CCTS K12 Career Development External Advisory Board for the funding of up to two scholars. All applicants will receive reviewer comments on their applications.

Please note the following requirements:

- To be considered, all applicants must submit the required Letter of Intent form by 11:59 PM on the date noted above using the online form indicated above.
- Applicants must complete all sections of the entire application. Applications are due by 11:59 PM on the date noted above using the online form indicated above.
- No late LOI or applications will be accepted.

(Note: The CCTS fund two career development programs for junior faculty: the Path to K and the K12 Awards. See Appendix 1 of this document for a comparison of the two programs.)

Please direct all questions to the Program Manager, Stuart Hobbs at 614-685-5972 or stuart.hobbs@osumc.edu

Benefits of the Path to K Grant

- Funds up to \$50,000 to cover:
 - Salary support for up to a 10% FTE appointment to this grant (up to salary cap of \$15,000 maximum) for the applicant plus relevant fringe.
- A 10% match of salary and fringe from the applicant's home department/division/college to create a total of 20% release time from clinical and other duties to devote to research and training
- Individualized career development and mentorship from the trainee's own appointed scientific committee.
- Automatic participation in the Launch to K Grant Writing workshop that meets May to September annually. <https://ccts.osu.edu/content/launch-k-grant-writing-workshop?highlight=launch%20to%20k>
- The CCTS will be providing other project resources. These include, but are not limited to:
 - Project management
 - Infrastructure services
 - Problem-solving
 - Financial tracking
 - Opportunities to disseminate research (posters and presentations)
 - Tools of the Trade seminars
 - Lunch and Learn seminars

Expectations of Path to K Grantees

- Commit 20% of your effort to the Path to K Grant.
- Your participation in various CCTS/Path to K activities will be required:
 - A monthly Lunch and Learn program—currently held the fourth Tuesday of the month
 - Attendance at The Business of Science, a three-day workshop held during Fall Semester
 - Attendance at least one annual meeting of the Association for Clinical & Translational Science (ACTS, typically held in April in Washington, DC)
 - Participation in the Annual CCTS Scientific Meeting
 - Mentor training for your Lead Mentor, if your mentor has not already participated in the CCTS training
- Grantees will have the opportunity to attend CCTS Tools of the Trade workshops relevant to their career development needs and will be strongly encouraged to attend one of the College of Medicine-supported Office of Research grant writing workshops or K workshops.
- Interim progress reports and a final project closure report must be submitted to the CCTS. These will include:
 - Responses to reviewer criticisms stated in your award letter must be addressed in these reports.
 - Your progress in meeting the milestones described in your application must also be addressed in these reports.
- Short yearly progress reports will be required each year after the grant for tracking data for the CCTS success metrics for three years following the end of the grant. This is required for our NIH metrics of success and reports.

Other Requirements

- No Path to K scholar or mentor will be permitted to work on any project involving live vertebrate animals or human subjects that has not been approved by the IACUC and/or IRB, as appropriate. If any scholar undertakes a project that includes human subject research studies, these must conform to the NIH policies on the inclusion of women, minorities and children in study populations. Funds for non-compliant projects will be withheld.
- IRB or IACUC approval (if required) must be obtained prior to release of funds. If IRB/IACUC is not in place, regulatory approval must be obtained within 60 days of grant start date noted at the top of this RFA.
- Ohio State CITI training in Human Subjects Protection and Responsible Conduct of Research as well as Good Clinical Practice certification must be completed by all research personnel who have access to personally identifiable data collected as part of this study. This requirement includes the Path to K Scholar,

as well as research staff funded by the award, if any. These modules are available at <http://orpp.osu.edu/irb/training-requirements/>

- Grant recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded by the grant will be free from bias resulting from an Investigator's Financial Conflict of Interest.
- All scholars appointed to this grant who are involved with human subjects must have completed education on the protection of human subjects and Good Clinical Practice (GCP) in accordance with NIH policy.
- Any individual involved in the design and conduct of a study not included in any certification must satisfy this requirement prior to participating in the project.
- Signed letter of offer and cost overrun form must be received prior to the release of funds. This form includes a requirement for department chartfield information to accommodate possible overrun of the Path to K account

Section II. Eligibility Information

Eligible Applicants

- Applicants must be considered a principal investigator. Eligibility information can be found at the [Ohio State Office of Research website](#). Residents and clinical and postdoctoral fellows are not eligible.
- Applicants must be from one of the following colleges: College of Dentistry, College of Medicine, College of Nursing, College of Optometry, College of Pharmacy, College of Public Health or College of Veterinary Medicine
- College of Medicine applicants, as required by the two endowments funding the College of Medicine arm of this program, must have an MD degree with a record of engagement in active clinical practice and be physicians credentialed by the Ohio State Wexner Medical Center. Individuals with dual degrees are eligible as long as one is an MD (acceptable examples: MD, PhD; and MD, MPH; MD, MS; etc.). Candidates must have faculty appointments and PI status at The Ohio State University. Residents, clinical fellows and post-doctoral fellows are not eligible to apply.
- Applicants may not have previously been a PI on a NIH individual or institutional K Grant or an R01 or an equivalent non-PHS grant with more than \$100,000 in direct costs
- Applicants must commit to spending 20% effort engaged in conducting the research supported through this grant. The Path to K Grant will compensate 10% of the committed time (up to salary cap of \$150,000), with the remained cost-shared by the college/department/division (as appropriate to the pattern of administration of the grantee's home unit). The dean or department/division chair must sign the signature page agreeing to the release time and cost sharing should the applicant be funded.
- Applicants and mentors must become CCTS members. Go to <https://ccts.osu.edu/form/become-a-member>

Section III. Application and Submission Information

This grant program involves a two-phased application process: a Letter of Intent to Apply (LOI) and a Full Application.

This funding announcement will serve as the instructions and guidelines for both the LOI and the Full Application submissions.

Phase One: Letter of Intent

To be eligible, it is required that you indicate your intention to apply via the Letter of Intent through an online REDCap form, which can be found at the text and hyperlinked web address.

The purpose of the Letter of Intent is twofold:

1. To let program staff know of your intent to apply for the Path to K Grant in order that they may organize the Study Section.
2. Applicants can fill-out the eligibility checklist to know that they are eligible.

All Letters of Intent must be submitted through the online process by 11:59 PM EST on the date at the top of this RFA. **No late Letters of Intent will be accepted.**

The process of completing the eligibility checklist will clearly tell you if you are eligible to go on to apply for the Path to K. You should review carefully the eligibility criteria found at the top of this page before applying.

Staff will use the information you submit about your project to organize the Path to K Study section. The information about your project that you submit in the Letter of Intent will not undergo scientific review. **Do not expect further contact from project staff after submitting the Letter of Intent.** If you answered the eligibility questions accurately, and did not receive an ineligible notice, you should be eligible to apply. If there are any issues in your LOI, CCTS staff will contact you within in 7 days.

If you have questions or concerns, please contact the Program Manager, Stuart Hobbs at 614-685-5972 or stuart.hobbs@osumc.edu.

Phase Two: Full Application

This funding announcement will serve as the instructions and guidelines for Full Application submissions

Applications and supporting materials are to be submitted **by 11:59 p.m. EST on the date noted at the top of this RFA. No late applications will be accepted.**

Please read these instructions carefully before going online to apply. The application must be completed and submitted online at the web address noted on page 1 of this document. The application process is designed so that you can save your information and return to it. You will be given a code, so be prepared to save that information.

Format Specifications

All applications must adhere to the following guidelines:

- Font
 - Use Arial 11 points or larger
- Page Margins
 - Use at least one-half inch margins (top, bottom, left and right) for all pages
- Application Paging
 - The application must be single-spaced.
- Figures, Graphs, Diagrams, Charts, Tables, Figure Legends and Footnotes
 - You may use a smaller type size, but it must be in black ink, readily legible
 - Do not include figures or other materials that are not inserted directly into the body of the application.
- Documents and file name. All documents asked for in the application must be submitted online in A single combined PDF document. Name your document using the following guideline:
< lastname_firstname_path_to_k_Application_2024 >

Upon receipt of your application, the CCTS will send you an email confirmation. Please inquire within 24 hours if you do not receive this email. The program will not be responsible for late submissions if not notified.

Investigators are strongly encouraged to visit the CCTS website at <https://ccts.osu.edu/> to search for and make use of other CCTS resources relevant to your project.

Grant Application Checklist

The Application consists of several parts. You can use the following as a checklist to help you gather, enter, and complete the application.

- Personal Information
(Includes Employee ID Number, Ohio State name.#)
- Campus Address
- Current University Employment Information (including job title, Department name, tenure track status)
- Administrative departmental contact (name, email)
- Previous CCTS funding
- NIH new investigator or early stage investigator status
http://grants.nih.gov/grants/new_investigators/investigator_policies_faqs.htm#2650
- Mentor(s) and collaborators (name/title/role on project/department)
- Race, ethnicity and additional such reporting information asked for by the NIH
- Project Title and Abstract (up to 250 words)
- Project Description – nine page maximum (to be uploaded to the Application; see these instructions for complete details)
 - Personal Statement (one page maximum)
 - Who are you? Why have you chosen a research career?
 - Your previous research experience?
 - What are your clinical privileges and expectations?
 - How you believe this training program will change the trajectory of your career or enhance your movement towards your goals?
 - Mentorship and Career Development Plan (up to two pages)
 - The role of your mentor(s) in developing your skills
 - Your strategy for a K-proposal submission within 12 to 18 months.
 - How will you meet the NIH requirements for training in responsible conduct of research
 - Research Plan (six pages maximum). The following topics should be addressed:
 - Specific Aims and hypothesis
 - Significance
 - Innovation
 - Preliminary Data
 - Approach
 - Milestones
 - References to Scientific Literature (not included in page count.)
- Itemized Project Budget (see below for form) and Budget Justification.
- NIH Formatted Biosketches (to be uploaded to the Application)
 - Applicant
 - Lead Mentor
 - All other mentors
- Letters of support from your:
 - Mentor
 - Other members of your mentoring team.
- Regulatory (IACUC or IRB) approval (if applicable)
- Signature of dean or department or division chair agreeing to the release time and cost-sharing should the application be funded

Application Components: Personal Statement

A one-page personal statement addressing the following points:

- Who are you? Why have you chosen a research career?
- Your previous research experience
- What are your clinical privileges?
- How you believe this training program will change the trajectory of your career or enhance your movement towards your goals

Application Components: Mentorship & Career Development Plan

This section can be up to two pages and should address:

- The role of your mentor(s) in developing your skills
- Your plan for receiving training to develop the additional skills you need to be a physician scientist.
- How you will meet the NIH requirements for instruction in the responsible conduct of research (see <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-22-055.html> for more information). Note the CITI GCP and RCR training is required also but does not fulfill this requirement.
- Your strategy for a K-proposal submission within 12 to 18 months.

Application Components: Research Plan

This section can be up to six pages and should include:

- Specific Aims and hypothesis of the project. Preferably no more than two aims
- Significance of the problem and how the proposed project will improve scientific knowledge and/or change the field of study.
- Innovation – Explain how the proposed project challenges current practice or creates a novel approach to the problem.
- Preliminary Data – Any research findings that help demonstrate the feasibility of your project; figures can be multi-panel if addressing a common theme; fully self-explanatory legends. Preliminary data can be integrated within various sections and does not have to constitute an independent section.
- Approach – Describe the overall strategy, methodology, and analyses to be used to accomplish the specific aims of the project, noting how it is clinical and/or translational. Schematic illustrations desired. Discuss potential problems, alternative strategies, and benchmarks for success anticipated to achieve the aims. For materials and methods, highlight powerful non-routine approaches, summarize routine approaches, and address statistical approach.
- Milestones – A list of milestones to be met and set dates for meeting.
- References to Scientific Literature – This section is not included in the six-page limit

Application Components: Itemized Project Budget and Justification

Use budget worksheet provided at: <https://ccts.osu.edu/content/path-k-program>

The Path to K grant has a budget of up to \$50,000. Allowable costs:

- Salary support for the Path to K PI up to a 10% FTE appointment to this grant (capped at \$15,000 maximum) for the applicant, plus appropriate fringe.
- Salary and fringe support for research staff, including undergraduate or graduate students, clinical trainees, post-doctoral and clinical fellows, is permitted.
- Research supplies and other expenses needed for carrying out the project, such as research beds, nursing or bionutrition staff, and routine laboratory measures.
- Travel funds needed for study conduct (e.g. participant travel or reimbursement for mileage for the conduct of community-engaged research) are allowable expenses. Funds to travel to the Association for

Clinical & Translational Science (ACTS) meeting in Washington, DC, in April should be included in your budget (~\$2,000).

- Equipment that is essential for the study, and is not otherwise available, may be requested, but large equipment expenditures (over \$5,000) are not allowed.

The budget justification should briefly provide explanation for line items within each category, such as roles and responsibilities for personnel, how supplies relate to your aims. If requesting equipment, the justification must explain why the current equipment is insufficient to accomplish the proposed research and how the new equipment's use will be allocated specifically to the proposed research. Finally, describe any overlap with submitted or funded applications, and existing funding including start-up

Application Components: Scientific Mentorship Team

Your Scientific Mentorship Team must consist of at least three members. Your team must include among its membership a Lead Mentor, a statistical mentor, and one other mentor (additional mentors are optional).

Lead Mentor. The applicant will identify a faculty member mentor in his or her area of clinical or translational research. Your mentor (or each co-mentor) is responsible for:

- Providing career development and counseling;
- Guiding and encouraging the design and execution of an original, high quality, research project;
- Collaborating with the mentorship team to support the Path to K Scholar.
- Attending CCTS sponsored events including a mentor training program and an on-boarding session, as well as other meetings with program leaders and administrators as needed.

The letter of support from your lead mentor should acknowledge his or her understanding of these requirements and describe their mentoring plan for your development. The letter should also describe the Mentors experience with mentoring, including the number of mentees.

Biostatistician. Your mentorship team must include one statistician who will help you to develop a research plan that meets the highest standards of rigor and reproducibility. The biostatistician will also biostatistical analysis of data and mentor you in biostatistical analysis. If your department or division does not provide access to biostatistical support, you can arrange for a consultation with the Center for Biostatistics. Go to the Center's project request form at:

<https://medicine.osu.edu/departments/biostatistics/service-request-form>

At least one additional member of the mentorship team. The Mentorship Team provides additional expertise in the scientific area of research chosen for the project, complementary to the interests of the lead mentor. It is highly desirable that the other member of your Mentorship Team be drawn from another discipline so that he or she can provide transdisciplinary input into your project. Your mentorship team members may also include a university faculty member who is not a regular member of the graduate faculty (e.g., an adjunct professor), a university staff member or a qualified individual outside the university who can provide expertise in your discipline.

Mentor Letters of Support

Letters of support are required: (1) from Lead mentor; and (2) from the other members of your mentoring team. Include these letters in your application PDF.

The Mentors should acknowledge awareness and support of the project and address the role and qualifications of the mentor for the project. The statistical mentor should give a rough count of how many projects he or she has supported with statistical issues similar to your project. The other mentor(s) should describe their experience with mentoring, including the number of mentees.

Address the letters to:

Cynthia Carnes, PharmD, PhD
The Ohio State University

Application Components: NIH Biosketches

You must upload (as PDFs) NIH formatted biosketches of yourself, your lead mentor and all other mentors.

Biosketch Instructions, samples and format pages can be found here:

<https://grants.nih.gov/grants/forms/biosketch.htm>

Application Components: Signature Page

Your dean or department/division chair must sign the signature page agreeing to the release time and cost sharing should you be funded. The pattern of administration in your unit will determine who the signing individual is. It should be the person who has ultimate authority for your time.

Section IV. Application Review Information

Three reviewers will read each application. Applications will receive an Impact Score (NIH 1-9 scale). Individual components will also be scored 1-9. The overall impact will reflect an evaluation of the trainee, the mentoring team, the training plan and the proposed research. All are equally weighted, and the study section will assess the overall fit of the components together.

Section V. Integrating Special Populations

Though this is not a scored category, applicants are encouraged to design research projects that address the needs of special populations; devise recruitment and retention plans that will optimize the participation of one or more special population; or pursue other strategies that integrate underrepresented groups into clinical and translational research.

The term “Special Populations” encompasses a multitude of groups and communities that are commonly underrepresented in clinical and translational research, and the CCTS is actively working to correct this problem. These groups include, but are not limited to, the following:

- Fetuses, neonates and children
- Pregnant or nursing women
- Older adults
- Individuals with physical disabilities
- Individuals with communication or sensory impairments (hearing, vision)
- Racial, ethnic or cultural minorities
- Non-English-speaking individuals
- Underinsured or socioeconomically disadvantaged patients
- Gender or sexual minorities (LGBTQ+)
- Individuals with intellectual disabilities
- Isolated urban or rural communities

Socioeconomic or demographic factors may contribute to the systematic underrepresentation of special populations, regardless of whether these groups are explicitly targeted for research participation. Historical cases of research misconduct have also ingrained a deep-rooted mistrust of the medical establishment in certain communities. Investigators often encounter additional challenges when recruiting or retaining special populations for research, such as how to effectively obtain informed consent for individuals with intellectual disabilities or how to ensure success for a study requiring multiple clinic visits for individuals with limited physical mobility. All these factors contribute to the underrepresentation in research of specific populations.

Section VI. Grant Administration Information

Grant Notices

Meritorious applications will receive formal notice in the form of a Letter of Offer provided to the applicant. A completed and signed CCTS Grant Acceptance Letter is required before the start date.

Reporting

You will provide brief interim progress reports three times per year and an annual progress report at the end of the year in which you will report on the progress of meeting the project milestones you listed in your application. The annual report will also include a brief presentation about your experience as a Path to K scholar to the CCTS K12 External Advisory Board.

Trainees, Lead Mentors and the Program Directors will meet every six months to review progress on the scholars Training Plan.

Citation Requirements:

All investigators must acknowledge the CCTS, the Office of Research and/or the College of Medicine in all publications, posters and presentations resulting from the supported studies. Where applicable, please include one of the following texts:

For awardees from a health science college other than Medicine:

The project described was supported by a Path to K award from the Ohio State University Office of Research and the Center for Clinical and Translational Science. The content is solely the responsibility of the authors and does not necessarily represent the official views of the university, or the Center for Clinical and Translational Science.

For College of Medicine awardees:

The project described was supported by a Path to K award from the Ohio State University College of Medicine Office of Research and the Center for Clinical and Translational Science through the Richard P. and Marie R. Bremer Medical Research Fund and William H. Davis Endowment for Basic Medical Research. The content is solely the responsibility of the authors and does not necessarily represent the official views of the Davis/Bremer Research Fund, the Center for Clinical and Translational Science, The Ohio State University Wexner Medical Center or the university.

Section VII. Agency Contacts

Grant Management Contact

If you have any questions regarding this RFA, please contact:

Stuart D. Hobbs, PhD, MBA

Associate Director, Research Education, Training and Career Development
Center for Clinical and Translational Science
Ste. 260 Prior Hall, 376 W. 10th Avenue, Columbus, OH 43210
614-685-5972 Office
stuart.hobbs@osumc.edu ccts.osu.edu

Program Co-Directors

Cynthia Carnes, PharmD, PhD
Path to K Program Director
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Path to K Co-Director
Professor of Nursing and Medicine
Assistant Dean for Biological Health Research
College of Nursing
Associate Dean for Research Operations and
Compliance, College of Medicine
wold.5@osu.edu

Signature: Protected Time and Salary Coverage

I acknowledge that this individual is qualified for this program and will receive support for all requirements for protected time and financial needs according to the RFA, and specifically:

1. I agree that if this applicant is awarded a Path to K grant, this individual will receive the required 20% protected time beginning October 1, 2024, and continuing until September 30, 2026, assuming satisfactory progress as determined by the CCTS.
2. I agree that the department and/or college will provide the amount of salary and benefits not covered by this grant beginning with the award date and continuing for up to two years. The grant covers 10% of salary up to a salary cap of \$150,000 (i.e. 10% of \$150,000 = \$15,000), plus relevant fringe benefits.

Signature

Date

Printed Name & Title: _____

Note: The above should be signed by your College Dean or your Department or Division chair: whoever is the appropriate person to make these commitments.

Signature Applicant

I certify that the statements herein are true and complete to the best of my knowledge, and that I will comply with all applicable CCTS terms and conditions governing my potential appointment.

Applicant's signature

Date

Appendix 1: CCTS Career Development Awards Compared

The Path to K grant is designed to benefit a wide spectrum of clinical and/or translational researchers across Ohio State. The grant provides salary support to ensure protected time for mentored research and didactic training in clinical/ translational research across a wide variety of project topics and academic areas. The overall goal of the program is to equip early career investigators to advance on the path to be competitive for NIH K Career Development Grants (or equivalent).

Early career junior faculty on the tenure or clinical track from one of the following health sciences at the Ohio State University are eligible to apply: College of Dentistry, College of Nursing, College of Optometry, College of Pharmacy, College of Public Health and College of Veterinary Medicine are eligible to apply.

Faculty from the College of Medicine are eligible for the Davis Bremer component of the Path to K. The Davis Bremer Path to K awards grants to facilitate early career successes for outstanding physician-scientists at Ohio State committed to a career in academic medicine. Applicants for the Davis must be physicians with Ohio State Wexner Medical Center credentials. This requirement reflects funding restrictions on the Richard P. and Marie R. Bremer Medical Research Fund and the William H. Davis Endowment for Basic Medical Research, which fund the Davis-Bremer/College of Medicine Path to K component.

All applicants for Path to K grants must have not previously been a PI on an NIH individual or institutional K, or R01 Award or other major grant with more than \$100,000 in direct costs. All applicants must have a research or health-professional doctoral degree.

The CCTS also manages an NIH institutional K award, the K12. The qualifications for the K12 are similar to those for the Path to K. However, the K12 is designed for more advanced researchers who are preparing to apply for an NIH R01 grant or equivalent. The K12 comes with 75% time for research and a limited amount of research funds.

The Path to K grant is for researchers who are preparing to apply for an NIH K award or equivalent.

All K12 scholars must receive instruction in the Responsible Conduct of Research, per NIH guidelines. The NIH policy outlines requirements for the format of instruction, frequency and timing, and subject matter. These should be reviewed here: <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-22-055.html> (accessed June 2024)

In response, the Office of Research at Ohio State produced the “Institutional Responsible Conduct of Research Training Plan” that can be found at https://research.osu.edu/sites/default/files/2024-01/ORC_Institutional-Responsible-Conduct-of-Research-Training-Plan_508.pdf (accessed June 2024)

Among other topics, Ohio State training plan outlines university training requirements for faculty on various funding sources and those on training grants. The K12 requires at least eight contact hours of instruction. The following fulfill both the content and contact requirements of the NIH for this training:

Graduate School 8000: Responsible Conduct of Research (Course ID 37106)

This course was specifically designed to meet NIH requirements in RCR training. The course provides a practical overview of the rules, regulations and professional practices that define the responsible conduct of research. Covers all the topics required by the National Institutes of Health. The course features weekly facilitated discussions from experts across campus. 1 Credit. Offered Spring term. Registration through BuckeyeLink.

Pharmacy 8520 - Research Ethics

Basic concepts of integrity in the process of research. The course covers all areas of responsible conduct of research including mentor/trainee roles, data management, animal use, human subjects. Offered the first four weeks of summer term. The course fulfills NIH requirement for research ethics. Dr. Cynthia Carnes, instructor. 1 credit

Responsible Conduct of Research Training at Nationwide Children’s Hospital

Nationwide Children’s Hospital offers a Responsible Conduct of Research Training Series at various times during the year. The course fulfills NIH requirements. For details, contact Michelle.Abraham@nationwidechildrens.org

The Ohio State Institutional Plan includes a list of several other courses whose syllabi indicate they would meet NIH requirements for subject area, format, and duration. However, these courses have not been formally reviewed or audited for their fulfillment of NIH requirements, and ethics courses alone typically are not sufficient to meet RCR .

Options for ongoing training.

On their own, the following do not meet the NIH or Ohio State RCR training requirements but provide excellent opportunities to continue your training. For example, the NIH program noted below provides a forum for clinical researchers to go more deeply into ethical issues that they might confront.

NIH Fall Ethical and Regulatory Aspects of Clinical Research Annual Forum

This is a seven-week annual presentation (typically offered September to November) by the NIH Bioethics program regarding various ethical issues of conducting human subject research. Presentations are via NIH VideoCast live and recordings may be accessed about 48 hours after the presentation via their Archive portal. Participants may request either a Certificate of Completion or Nursing CEUs by pre-registering Online and attending a set number of programs. You can find more information at the program website: <https://bioethics.nih.gov/courses/ethical-regulatory-aspects.shtml> (accessed June 2024)

Conversations about Research Ethics (CARE) Training Program

The Center for Ethics and Human Values (CEHV) offers a semester-long, multidisciplinary, and discussion-based program on research ethics called the CARE Training Program. It involves eight

hour-long sessions led by CEHV ethicists. The program does not fulfill all the NIH requirements but is an excellent refresher on research ethics topics. Details here: <https://cehv.osu.edu/care-training-program> (accessed June 2024)