

UNMC Department of Internal Medicine

Scientist Development Award

Funding for 2023-2024 Academic Year

This award is designed to support promising Department of Internal Medicine faculty candidates in the transition from fellowship/post-doctoral training or as early faculty into a career as an independent researcher. The award is intended to target individuals who plan to embark on long-term careers in biomedical and/or clinical research. The purpose of this award is to provide support for early faculty (at the level of an Instructor or Assistant Professor) during which the applicant would participate in a mentored research training program. Applicants should be in the process of completing the final year of fellowship, with a faculty appointment anticipated by July 1, 2023, or in the first two years of a faculty appointment at the time of submission.

This mentored program provides support for salary as well as research and/or education costs for one year of research training in an environment where awardees will interact with more established investigators in the Department of Internal Medicine and their collaborators. *Up to one award* will be made annually. The goal of funding at this level is to provide an opportunity for young scientists to embark on focused research and research training that will allow them to be competitive for the next level of career development awards (e.g. NIH K Award, VA Career Development Award, or equivalent foundation award). It is expected that the awardee will demonstrate significant productivity during the one-year funding period, including but not limited to serving as the PI on external grant applications, first-author manuscript submissions, and/or participation in meaningful professional development (e.g. research training) activities. Through this award, the Department provides a means for developing more qualified, highly-trained investigators at UNMC.

Award Amount: Up to \$100,000 in total funds for 1 year

All applications must be emailed to [Toni Goeser](#) by 5 p.m. CST on the deadline day:

Application Deadline
Thursday, December 5, 2022

The award announcement will be made within 60-90 days of the application deadline. Funding will begin on or about July 1, 2023.

GUIDELINES

Eligibility

- Fellow applicants must have completed all requirements for a fellowship program and have a faculty appointment prior to funding.
- Faculty applicants must be within three years of their initial faculty appointment at the time of funding.
- Clinician scientist applicants must be board certified in Internal Medicine and, as appropriate, at least board eligible in their subspecialty area.

- Clinician applicants must be in good standing with his/her Division, the Department, and Nebraska Medicine (all credentialing and Nebraska licensing must be valid and up to date).
- Be able to commit at least 50 percent full-time professional effort to research, career development, and other scholarly activities for a period of at least one year.
- Commitment from a mentor with a primary appointment in the Department of Internal Medicine who will oversee the training and research experience.
- Former or current principal investigators of research grants (at the K level or higher, including institutional K or VA (Veterans Affairs) Career Development Award) and past awardees of this or equivalent Foundation grants are NOT eligible to apply. Small R award grant holders (e.g., R03, R21) remain eligible.
- The applicant must have received human subjects research training as required by UNMC and the proposed project must be IRB / IACUC approved prior to the receipt of funding (along with satisfying all other regulatory requirements); note IRB / IACUC approval is not necessary at the time of application submission.

If you have questions about your eligibility, please contact [Toni Goeser](#) before preparing your application.

Review Criteria

Applications are rated on the following criteria:

1. The proposed research project's scientific merit; proposals should include clearly stated hypotheses and a detailed methods section with clear statistical analysis plan and sample size/power considerations as appropriate.
2. The appropriateness of the proposed project as a mechanism for developing the applicant into an independent biomedical investigator.
3. The environment in which training will be conducted, specifically the mentor, the Division, the available facilities, and the potential for inter- and extra-departmental interactions.
4. The applicant's background, training, and potential to develop into a productive research scientist.
5. The Division's commitment to protect the applicant's time for research and continued education, including evidence of such commitment extending beyond the proposed funding period.

Prior experience and publications are not required but will be considered as supporting qualifications of the applicant. Evidence of the Division's commitment and plans for the advancement of the applicant toward becoming an independent investigator will be important in review of this award.

Award Terms and Funding

Awardees must devote at least 50 percent full-time professional effort to research, career development, and other scholarly activities with assurance that no more than 50 percent full-time professional effort will be spent on clinical and/or teaching activities. **At least 25 percent professional effort must be devoted to the proposed project throughout the one-year funding period.**

Awardees should not have received funding as principal investigator by any of the award mechanisms outlined in the eligibility section at the time funding for this award begins. Should the awardee receive any of the awards mentioned above during the award period, they must notify the Vice Chair's office.

Awards are funded for one year; however, there is a possibility for renewal with an additional year of funding. Renewal is contingent on submission of an annual progress report showing substantial accomplishments and progress toward benchmarks specified in the original application. In order to be considered for a second year of funding, awardees must

also provide evidence of a submitted application for a career award (e.g., NIH K or R series award, VA Career Development Award, or equivalent from a private foundation or other external funding source). **Renewal in the second year is competitive, and subject to approval by the Department Chair's office.** Final funding decisions will be made by the Department Chair in consultation with the Vice Chair for Research.

Salary: Salary will be based on levels set by the sponsoring Division. Awardees may receive salary supplementation from other sources; however, the extent of this supplementation must be stated on the application and the applicant must notify the Vice Chair's office if other support is received during the award term. Funding can be used to cover fringe benefits.

Research Costs: Allowable research costs include the following types of expenses: (a) research supplies, equipment, and technical personnel; (b) tuition and fees and books related to degree programs, such as an MPH, MCR or other didactic courses appropriate for career development; (c) travel to research meetings or training (limited to \$5,000); and (d) statistical services including personnel and computer time.

Progress Report: Funded applicants will be required to provide an in-person "progress report" to the Department of Internal Medicine Research Council (IMRC) six to nine months into the funding period. **It is anticipated that the progress report will include detailed plans (or report) on additional funding that will be sought or that has been applied for during the one-year funding period.** The awardee will also be required to participate in a [Research Studio hosted by the Great Plains IDeA CTR](#) within 3 months of project completion.

APPLICATION INSTRUCTIONS

Application requirements Include:

- **Cover Letter** confirming that the applicant satisfies all eligibility criteria; the letter should include contact information and the names of the mentor(s).
- **Division Chief Letter** confirming that sufficient time will be protected for the award, outlining the applicant's expected distribution of time over the one-year award. Awardees must devote at least 50 percent full-time professional effort to research, career development, and other scholarly activities during the award term, with at least 25 percent to this award in the first year. Candidates may not spend more than 50 percent effort in clinical and/or teaching activities. This letter should also be used to clarify any divisional support that will be used above and beyond the \$100,000 allowed from this award.
- **Career Development Plan Outline** – Applicants are required to provide an outline (limited to one page) of their career development plan. The applicant should identify any future learning needs and peer support. Goals should be specific, measurable, achievable, relevant, and bound by time. Include how this proposed project factors into your plan.
- **NIH Biosketches** for the Applicant and Mentor(s) – Only the NEW NIH format will be accepted (limited to five pages for each biosketch); this should detail any pending grant support. Biosketches should be included for all primary and secondary mentors identified by the applicant. See: [NIH Biosketch Format Pages, Instructions, and Samples](#)
- **Mentor Information** – All participating mentors are asked to provide a letter of support (limited to no more than two pages for the primary mentor, one page for secondary mentors), **outlining his/her commitment to the applicant, involvement in the proposal, and prior experiences in research mentoring.** An applicant may have more than one mentor; however, the primary mentor must be a faculty member in the UNMC

Department of Internal Medicine.

- Qualifications of the mentor(s) will be judged based on the biosketches and the specific commitment of the mentor(s) to the applicant's proposal (**i.e., frequency and content of meetings with the applicant**) and early career development (**i.e., how will you help the applicant develop into an independent biomedical investigator**).
 - The primary mentor should describe in detail the applicant's role in the proposed project and outline other activities that will be used to aid the applicant's development into an independent investigator (**i.e., describe any coursework or other plans for obtaining specific research methodology training**).
 - This letter should include information about the proposed research environment, including any information regarding secondary mentors (separate letters from secondary mentors are not required).
 - Note that having a secondary research mentor outside the Department is allowable, but it is essential that the trainee's academic career development has meaningful input from Department faculty.
 - Mentors must have sufficient independent research support to cover the costs of the proposed research project in excess of the allowable costs of the award. The use of co-mentors to achieve the goals of the program is strongly encouraged.
- **Scientific Project** – See details below ('PROJECT INFORMATION').

PROJECT INFORMATION

The information in this section is general information about the application submission.

Project Title

Make your title specific and detailed. It should clearly state the topic of your proposal.

Abstract (limit to 300 words)

Succinctly describe the hypothesis to be tested, the specific aims or global objectives of the project and the expected results.

Research Proposal (limited to six pages including figures and tables – does not include references; this six-page limit applies to components A through E below)

The applicant is solely responsible for writing the proposal. This section should be presented in such a way that it is clear that the applicant understands the project.

Describe in detail:

- A. **Specific aims (limit one page):** State the overall research objectives, the specific aims for the proposed project, and the hypotheses that will be tested.
- B. **Background (suggested limit of less than one page):** Briefly summarize the background to the proposal. Include only key references to prior work that constitutes the foundation of the proposal and any preliminary background work by the applicant and/or his/her mentors.
- C. **Experimental design and methods:** Summarize the essential features of the experimental design and methodology. Include a specific plan for data and statistical analysis as well as a clearly defined power analysis where appropriate. Preliminary data may also be included in this section. Involvement of a qualified statistician is strongly encouraged (consultations can be completed with the [UNMC Center for Collaboration on Research Design and Analysis \(CCORDA\)](#)).

- D. **Significance (suggested limit of less than one page):** Include a statement on the relevance of the proposed project to the prevention, control, or cure of the disease of interest. Describe how the successful completion of the proposed project will add to a better understanding of disease and/or health. State the importance of the research described in this application by relating the specific aims to the broad, long-term objectives.
- E. **Future Direction (suggested limit of less than half page):** Include a statement summarizing the potential impact and outcomes that this project may have on your career and the field. Please outline how successful completion of the aims outlined in this award will position you for future funding. Inclusion of specific funding opportunities or RFA's is encouraged.
- F. **Selected references**
- G. **Benchmarks of Success (See template attached):** **Benchmarks** of success and corresponding timeline should be included for any formal coursework / training proposed and the research project as outlined in the research proposal. This may include a timeline for other grant submissions (e.g., NIH, VA, foundation, etc.).
- H. **Budget (See template attached):** The budget should indicate the expected amount of salary from the award, including fringe if requested.

TIPS

With this and all research funding applications, make it easy for your reviewers!

- Succinctly show how the proposed project will help address a question of importance in your field, and how your experience to date has equipped you to conduct the project successfully.
- Clearly identify and describe the role(s) of your mentor(s), and the synergies the mentor(s) bring to the project and to your career development.
- Clearly show the role of the SDA award in your research career path – e.g., will this provide resources and time to support a future career development or independent proposal? How and when?
- Your budget should demonstrate your understanding of the personnel and resources (supplies, core services, etc.) realistically needed to complete a project of this length and scope. Do not pad, but do not skimp.
- Detail any resources beyond the SDA funds that you anticipate receiving/have received that may help support your project, such as start-up funding, access to space and/or personnel in another's lab, etc. and how you will leverage these resources for the proposed project.
- Allow yourself plenty of time to prepare documents, to obtain feedback from mentors or other trusted colleagues, and to incorporate revisions as needed and appropriate before submitting. Successful proposal writing rarely occurs in a vacuum, and the internal funding landscape is competitive.

CHECKLIST

- Applicant NIH biosketch (new format)
- Mentor(s) NIH biosketch (new format)
- Proposal Title and Abstract
- Research Proposal (Items A through E above)
- References
- Benchmarks
- Budget

- Letter(s) from Mentor(s)
- Letter from Division Chief
- Career Development Plan Outline
- Cover Letter
- Copy of Relevant IRB or IACUC Approval (if pending, please indicate this in the Cover Letter)

Benchmarks for Success*

The benchmarks (expected status of the project at various points in time) included in your original application will be used to evaluate progress. The milestones should reflect the specific aims of the proposal and be presented within the context of measurable outcomes. ***Timeline for other grant submission (e.g., NIH, VA, Foundation, etc. career development awards) is a required benchmark.**

Benchmarks <i>(Should be listed in order of priority)</i>	Metrics for Success <i>(projected end points)</i>	Expected completion

DETAILED BUDGET – SDA		FROM		THROUGH
NAME	Fringe Rate	SALARY REQUESTED	FRINGE BENEFITS	TOTAL COST
SALARY SUBTOTAL →				\$
OTHER EXPENSES <i>(Itemize by category)</i> **				
Justification:				
OTHER EXPENSES SUBTOTAL →				\$
TOTAL COSTS FOR BUDGET PERIOD (NOT TO EXCEED \$ 100,000)				\$
<i>Applications must include an itemized budget indicating the expected amount of salary from this award. In addition to salary support (including fringe benefit costs), allowable costs include the following types of expenses: (a) research supplies, equipment, and technical personnel; (b) tuition and fees and books related to didactic courses or career development; (c) travel to research meetings or training (no more than \$5,000); and (d) statistical services including personnel and computer time. These funds may not be used for salary support for mentors. The total budget should not exceed \$100,000. For applicants receiving supplemental funds from the Division, these should be clarified in the letter from the Division Chief.</i>				