Research and Entrepreneurial Development Immersion

REDI K01: Mentored Entrepreneurial Career Development

REDI R25: Entrepreneurship Enhancement Award

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Health Scientist
Office of Strategic Extramural Programs
National Institute on Aging
National Institutes of Health
A faculty job is an “alternative career path”

Current PhD/postdoctoral training programs remain limited in scope in terms of training.

Postdocs transitioning to tenure track positions

(Cheng et al, 2023)

NIH is aware of these issues

NIH Biomedical Research Workforce Working Group made a number of recommendations. Among them:

1. Better align training
   Align training with the current job market

2. Supplement training grants
   Create programs to supplement training grants to provide additional training opportunities

3. Leverage SBIR/STTR
   Encourage SBIR/STTR awardees to provide internships to trainees
Various programs have been established
Immersive experiences/internships are very useful

Trainees at different stages have different needs

Wide, encompassing training programs are required for the variety of career options

One size doesn’t fit all!
NIA Research and Entrepreneurial Development Immersion (REDI) Umbrella

Broad Definition of “Entrepreneurship”

REDI focus areas: Develop specialized skills for career success

- Bio-Entrepreneurship
- Intellectual Property
- Science Communications, Policy, and Education
- Regulatory Affairs
- Drug Discovery, Approval, and Production
- Consulting

REDI

Research and Entrepreneurial Development Immersion

Individual Awards
Institutional Awards
Novel SB Awards
NIA Research and Entrepreneurial Development Immersion (REDI) Umbrella

**Broad Definition of “Entrepreneurship”**

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**Research and Entrepreneurial Development Immersion**

- **Individual Awards**
- **Institutional Awards**
- **Novel SB Awards**

nia.nih.gov/sbir
# The REDI umbrella

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<th>FOA</th>
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| **PAR-22-227** (REDI: Mentored Entrepreneurial Career Development Award; K01 clinical trial not allowed) | Application: October 18, 2023
Letter of Intent: N/A | $90,000/year in salary;
$50,000/year in other program-related expenses |
| **RFA-AG-22-003** (REDI: Entrepreneurship Enhancement Award; R25 clinical trial not allowed) | Application: October 4, 2021
Letter of Intent: September 4, 2021 | |
| **RFA-AG-22-007** (REDI: Entrepreneurial Small Business Transition Award; SBIR clinical trial optional) | Application: October 26, 2021
Letter of Intent: September 26, 2021 | Phase I $400,000; Fast Track $2 million |
| **RFA-AG-22-014** (REDI: Entrepreneurial Small Business Transition Award; STTR clinical trial optional) | Application: October 26, 2021
Letter of Intent: September 26, 2021 | Phase I $400,000; Fast Track $2 million |
## The REDI umbrella

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$50,000/year in other program-related expenses |
| **PAR-22-226** (REDI: Entrepreneurship Enhancement Award; **R25** clinical trial not allowed) | Application: October 18, 2023  
Letter of Intent: 30 days prior | $250,000/year in direct costs |
**REDI K01**

**PURPOSE**
Provide protected time (3-5 Years) for a supervised career development experience leading to research independence. Entrepreneurship training, in a field relevant to NIA mission, is a major focus.

**REQUISITES**
Two Mentors: a Research Mentor & an Entrepreneurial Mentor. Internships, shadowing opportunity and externships are encouraged. Applicants encouraged to spend time with a startup, local biotech company, foundation, life science investment firm or relevant organization. SBIR/STTR grant writing can be considered as part of training.

**ELIGIBILITY**
Postdoctoral scholars (at least 2 years minimum) and/or recently appointed junior faculty.
Can not have received a prior R01, P01, P50, or other major career grants (K01, K07, K08, K22, K23, K25, K76, K99/R00). Must be a citizen or a non-citizen national of the US or have been lawfully admitted for permanent residence by the time of the award. Individuals with (a) underrepresented racial and ethnic backgrounds and (b) disabilities are strongly encouraged.
**REDI K01**

- **3-5 Year Award**
- **$90K in salary, $50K in training costs (annually)**
- **Deadline: Oct 18, 2023**

**Review Criteria**

**CANDIDATE**
- Potential; appropriate prior training; commitment

**CAREER DEV. PLAN**
- Plan’s contribution to success; appropriate content, scope, phasing & duration

**RESEARCH PLAN**
- Appropriate methods; relevance; scientific merit

**MENTOR**
- Appropriate mentor and mentorship

**ENVIRONMENT**
- Commitment; research facilities

[nia.nih.gov/abir]
Tips for the REDI K01

Two ways to use the REDI K01:
1. Gain non-academic skills to apply in your academic career
2. Launch your non-academic career

Be an entrepreneur in designing your own career path:
• How can you apply your PhD skills to an important, fulfilling career?
• What activities can launch your career path?

Integrate your research and career development activities and align them with your career goals.
**REDI R25**

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<th>PURPOSE</th>
<th>Promote the development of entrepreneurial education programs to broaden the skillset of graduate students &amp; postdocs in the fields relevant to the mission of NIA.</th>
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<td>REQUISITES</td>
<td>Courses and workshops with a broad scope: product development, commercialization, scientific communication, tech transfer, science policy, drug development, regulatory affairs, finance, marketing, business dev &amp; research administration. Diversity Recruitment Plan is required.</td>
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<td>ELIGIBILITY</td>
<td>Broad eligibility including universities, accelerators, for-profit and non-profit organizations</td>
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We encourage partnering with existing NIH-funded or other federally funded resources and programs, such as the NIH Proof of Concept Network, including NIH Centers for Accelerated Innovations (NCAI), NIH Research Evaluation and Commercialization Hubs (REACH) and NIGMS IDeA Regional Technology Transfer Accelerator Hubs, NSF-I-Corps, and NCATS Clinical and Translational Science Awards (CTSA).
This Funding Opportunity will support creative educational activities with a primary focus on:
- Research Experiences
- Courses for Skills Development
- Mentoring Activities
- Curriculum or Methods Development

- Intended target of graduate students and postdocs but research programs can be offered to faculty and undergraduates as appropriate.
- Applicants are encouraged to propose collaborations involving both scientific and business departments as well as to consider collaborations with affiliated and/or local institutions as appropriate.
REDI R25

- Up to 5 Year Award
- $250K direct costs (annually)
- Due: Oct 18, 2023 (LOI: Sept 18, 2023)

Review Criteria

**SIGNIFICANCE**
Does the program provide opportunities to mentees for a career in entrepreneurship?

**INVESTIGATOR**
Will the personnel expertise increase participants’ entrepreneurial skillset?

**INNOVATION**
Is the program innovative and reaching targeted audience?

**APPROACH**
Does the program clearly state its goals? Are the evaluation plans appropriate?

**ENVIRONMENT**
Will the scientific and education environment of program contribute to the goals?
Tips for the REDI R25

Make it clear that the program aligns with NIA’s mission
  • Include topics and unique considerations related to aging and/or AD/RD
  • Bring in experts on topics such as age-tech, dementia, Medicare, etc

Know your audience
  • Is this program primarily aimed at graduate students and/or postdocs?
  • How much time will participants have to dedicate to the program?
  • How much experience will participants have coming into your program?

Be clear on your program goals:
  • Have clear, measurable, program outcomes.
  • How are you determining “success”?

Ensure your program is accessible for students of all backgrounds!
Questions and Next Steps

Have specific questions about your potential REDI application? Reach out via email or set-up a 1-on-1 meeting to discuss in more detail

Joshua Hooks, PhD
joshua.hooks@nih.gov

Book a 20-minute meeting
Guest REDI Awardees

Dr. Brianna Stubbs
REDI K01 Awardee

Dr. Julie Coleman
REDI R25 Awardee
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REDI K01 Examples

• Developing skills to translate AD-related neurobiology into novel drug development
  • Pursuing certifications on regulatory affairs

• Research into digital biomarker development and pain interventions
  • Attending workshops on health care delivery systems

• Researching and developing therapeutic formulations of novel compounds
  • Attending biotech/investor conferences
  • Working with international startups