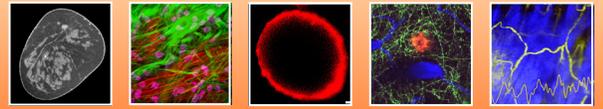


DIVISION OF INTERDISCIPLINARY TRAINING

TRANS-NIH PROGRAMS

National Institute of Biomedical Imaging and Bioengineering

National Institutes of Health



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Introduction

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Big Data to Knowledge (BD2K)

BD2K is a trans-NIH initiative established to enable biomedical research as a digital research enterprise, to facilitate discovery and support new knowledge, and to maximize community engagement. The following funding opportunities are offered in support of 4 major aims: 1) to facilitate broad use of biomedical digital assets by making them discoverable, accessible, and citable, 2) to conduct research and develop the methods, software, and tools needed to analyze biomedical Big Data, 3) to enhance training in the development and use of methods and tools necessary for biomedical Big Data science, and 4) to support a data ecosystem that accelerates discovery as part of a digital enterprise.

- **NIH Big Data to Knowledge (BD2K) Initiative Research Education: Massive Open Online Course (MOOC) on Data Management for Biomedical Big Data (R25)**
This funding announcement seeks applications for the development of a Massive Open Online Course (MOOC) that covers a comprehensive set of topics related to the management of biomedical Big Data.
<http://grants.nih.gov/grants/guide/rfa-files/RFA-LM-15-001.html>
- **NIH Big Data to Knowledge (BD2K) Initiative Research Education: Open Educational Resources for Sharing, Annotating and Curating Biomedical Big Data (R25)**
This funding announcement seeks applications for the development of curriculum modules that can be used by librarians and other information specialists to prepare researchers, graduate students and research staff to be full participants in the global community that maintains and accesses digitally-stored biomedical Big Data.
<http://grants.nih.gov/grants/guide/rfa-files/RFA-LM-15-002.html>
- **Predoctoral Training in Biomedical Big Data Science (T32)**
This funding announcement seeks applications for graduate training programs in Big Data Science, for the expressed purpose of training the next generation of scientists who will develop computational and quantitative approaches and tools needed by the biomedical research community to work with biomedical Big Data in the biomedical sciences.
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-004.html>
- **Revisions to Add Biomedical Big Data Training to Active Institutional Training Grants (T32)**
This funding announcement seeks to allow revisions (competitive supplements) to add a Big Data Science track to active T32 institutional training grants for the expressed purpose of training the next generation of scientists who will develop computational and quantitative approaches and tools needed by the biomedical research community. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-005.html>
- **Revisions to Add Biomedical Big Data Training to Active NLM Institutional Training Grants in Biomedical Informatics (T15)**
This funding announcement seeks to solicit revisions (competitive supplements) to add a Big Data Science track to active T15 institutional training grants for the expressed purpose of training the next generation of scientists who will develop computational and quantitative approaches and tools needed by the biomedical research community.
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-006.html>
- **Mentored Career Development Award in Biomedical Big Data Science for Clinicians and Doctorally Prepared Scientists (K01)**
The objective of this NIH Mentored Research Scientist Development Award (K01) is to provide salary and research support for a sustained period of "protected time" (3-5 years) for intensive research career development under the guidance of an experienced mentor, or sponsor, in biomedical Big Data Science.
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-007.html>
- **Courses for Skills Development in Biomedical Big Data Science (R25)**
This funding announcement encourages the development of creative educational activities with a primary focus on Courses for Skills Development. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-008.html>

- **Open Educational Resources for Biomedical Big Data (R25)**
This funding opportunity announcement encourages the development of creative educational activities with a primary focus on Curriculum or Methods Development. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-14-009.html>
- Additional information at: <http://bd2k.nih.gov>

BRAIN Initiative

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NIH Blueprint for Neuroscience

Enhancing Neuroscience Diversity through Undergraduate Research Education (ENDURE) funds collaborative neuroscience research partnerships between undergraduate institutions and graduate neuroscience research training programs.

Additional information at
<http://neuroscienceblueprint.nih.gov>.

NIH Common Fund (Roadmap)

NIH Director's Early Independence Awards allow exceptional early-career researchers to omit postdoctoral training and establish independent research programs.

<http://commonfund.nih.gov/earlyindependence/index>

NIH Director's New Innovator Awards support innovative proposals from early-career researchers with the potential for high impact on biomedical research.

<http://commonfund.nih.gov/newinnovator/index>

NIH Director's Pioneer Awards complement NIH's traditional, investigator-initiated grant programs by supporting individual scientists of exceptional creativity, who propose pioneering – and possibly transforming approaches – to major challenges in biomedical and behavioral research.

<http://commonfund.nih.gov/pioneer/index>

NIH Director's Transformative Research Awards are created specifically to support exceptionally innovative and/or unconventional research projects that have the potential to create or overturn fundamental paradigms.

<http://commonfund.nih.gov/TRA>

Additional information at
<http://commonfund.nih.gov>.