From: dmsnews on behalf of Henry Warchall
To: DMSNEWS@LISTSERV.NSF.GOV
Subject: New NSF funding opportunity: Accelerating Discovery: Educating the Future STEM Workforce (AD)
Date: Friday, April 06, 2018 4:39:15 PM

Dear Colleagues,

A new NSF program (PD 18-1998) is now available:

Accelerating Discovery: Educating the Future STEM Workforce (AD)

Please see

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505552

for details.

Full Proposal Window: April 2, 2018 - January 16, 2019

(Proposals received by July 2, 2018 will be considered for FY 2018 funding.)

From the Program Synopsis:

The NSF's Education and Human Resources Directorate (EHR) seeks to invest in projects that can educate the STEM workforce to advance discovery in the six research Big Ideas: Harnessing the Data Revolution; The Future of Work; Navigating the New Arctic; Multi-messenger Astrophysics; The Quantum Leap; and Understanding the Rules of Life. In addition to developing and implementing novel educational and/or training programs, these projects should simultaneously generate new knowledge about effective STEM education, by studying such programs and exploring related issues.

Specifically, NSF accepts proposals to support education research and development projects focused on re- or up-skilling the existing workforce; developing the skilled technical workforce; and/or preparing those at the undergraduate, graduate, or postdoctoral fellow/early career levels. We encourage projects to partner with industry, public, and private sectors to define the needs of tomorrow's workforce and develop educational and learning strategies to meet those needs. Proposals should address near-, mid-, and long-term challenges and opportunities facing the development of STEM professionals or anticipate new structures and functions of the STEM learning and teaching enterprise. Proposers are encouraged to include approaches that have the potential to increase and diversify participation in STEM. All proposals should contribute to one or more of the six research Big Ideas.

EHR is particularly interested in supporting innovative education research and development in two Big Ideas: The Future of Work at the Human-Technology Frontier (FW-HTF) and Harnessing the Data Revolution for 21st Century Science and Engineering (HDR). Projects of interest include: innovative uses of technology and big data to understand learning; educational approaches that prepare tomorrow's innovators to use technology and big data to understand the natural world; effects of advances in intelligent agents on STEM teaching and learning; and evaluation of disruptive educational interventions on long-term student outcomes.
