Community Engagement: External Grant Programs and Funding Opportunities

Christopher Hedge
NWS/STI Federal Program Officer
January 31 2018
Currently Funded Projects

- NWS/STI supports collaborative research with the external/academic community through these programs
  - NGGPS: Next Generation Global Prediction System
  - S2S: Seasonal to Sub-seasonal (Weeks 3-4) forecasting improvements
  - HFIP: Hurricane Forecast Improvement Project
  - CSTAR: Collaborative Science, Technology, and Applied Research
  - Full list of STI grants (http://www.weather.gov/sti/stigrants) and also in the NOAA VLab CSTAR community
- Total funding in FY17: ~ $5.4M for 35 projects
Currently Published Funding Opportunities

• 2 companion Federal Funding Opportunities (FFO)
• First FFO is two separate competitions: NGGPS and HFIP
  • NGGPS: Collaborative projects with EMC or CPC researchers, including S2S projects
  • HFIP: Collaborative projects with EMC, AOML and/or NHC researchers
• Open to non-federal applications in the academic community (no funding for feds or contractors)
• Estimated number of awards: 16 - NGGPS, 6 - HFIP
• 2-year projects, maximum funding $200K/year
• LOIs were due December 8, 2017...NOT required
• Full applications due: February 7, 2018
• Expected project start date: September 1, 2018
NGGPS Priorities

• Data Assimilation
• Prediction
• Ensemble Development
• Post-processing
• Verification
• Weeks 3-4 (S2S) Products
HFIP Priorities

- Data assimilation
- Advances in the prediction sub-system
- Ensemble development
- Post-processing techniques
The second FFO has 1 competition: **NOAA Testbeds**

- These are NGGPS modeling projects which have a collaborative partnership with 1 or more NOAA Testbeds
- Open to federal and non-federal applications
- Estimated number of awards: 6
- 2-year projects, maximum funding $200K/year
- LOIs: **required** and were due December 13, 2017
- Full applications due: February 7, 2018
- Expected project start date: September 1, 2018
NGGPS-Testbed FFO Priorities

This companion FFO includes priorities for testing service impacts of proposed model advances for prediction of high-impact weather over several key time frames for decision support:

• **Forecasting for days 6-10**
  • Evaluate NGGPS guidance in this range with a focus on high-impact events
  • May leverage testing of HMT, Arctic TB, or JHT
• **Forecasts for weeks 3-4**
  • Investigate research gaps to improve forecasts in this time frame
  • Collaborate with the CTB
• **High-Impact weather: days 0-3**
  • Advances in storm-scale, fire weather and convective/severe weather prediction
  • May leverage testing capabilities of HWT or AWT
JTTI Funding Opportunity

- OAR – Joint Technology Transfer Initiative
- Approx. $2M/year --- 10 projects
- Projects are 2 years; up to $300K/year
- LOI’s: due February 19, 2018
- Full proposals: due April 9, 2018
- Start date: October 1, 2018
Community Engagement: External Grant Programs and Funding Opportunities

• POC: Christopher Hedge
  – christopher.hedge@noaa.gov
  – 301-427-9242
Backup slides

R2O of recent and current CSTAR Projects

- Webinars with NWS Forecasters: **NC State**
- Training Modules: **SUNY Albany**
- Publications: **University of Washington**
- Research cited in AFD’s: **SUNY Stony Brook**— Ensemble Sensitivity
- Assessment of 1-2 week Severe Weather Probability Guidance: **St. Louis University**
- Development and assessment of **Texas Tech** ensemble assimilation/forecast system