F30, F31& F32 Fellowship and K Career Development Award Boot Camp II

11 September 2012
There are “All Hands” seminars, and break-out sessions for those doing “F-type” applications, “K- and R-type” applications and all “Other-types” of applications.

- **Sept. 11 - Session A1** Introduction to boot camp
- **Sept. 25 - Session A2** Themes: Ethics and Responsible Conduct of Research, Time Management, Application process Break, Breakout Groups
F Type Awards

- **Sept. 25 - Session F2**. Breakout
  Developing a plan for submission & putting together an F-type application:

- **Week of Oct. 8-12 - Session F3** Breakout
  Review *RCR, sponsors and co-sponsors sections*, Introduction to Specific Aims and Training Plan

- **Week of Oct. 22-26 - Session F4** Breakout
  Review *Specific Aims and Training Plans*

- **Week of Nov. 5-9 - Session F5** Breakout
  Review *Research Strategy and Training Plan*

- **Week of Nov. 26-30 - Session F6** Breakout

  Assignments

- **Week of Dec. 3-7 (DUE DATE DEC. 5) - Session F7** Breakout
  Review *Research Strategy*, finalize
K Type Awards

- Sept. 25 - Session K2/R2 Breakout
  Developing a plan and putting together a K/R-type application

- Week of Oct. 8-12 - Session K3/R3 Breakout
  Review Candidate’s Background, Career Goals & Objectives, RCR, Introduction to Career Development Activities, and Mentoring Plan

- Week of 22-26 - Session K4/R4 Breakout
  Review Career Development Activities

- Week of Nov. 5-9 - Session K5/R5 Breakout
  Review Mentoring Plan, Mentors & institutional environment, facilities & equipment, institutional commitment, Introduce Specific Aims

- Week of Nov. 26-30 - Session K6/R6 Breakout
  Review Statements by mentors, institutional environment, institutional commitment and Specific Aims, Introduce Research Strategy

- Week of Dec. 3-7 - Session K7/R7 Breakout
  Review Specific Aims and Research Strategy, Introduce Abstract, Public Health Relevance, Protection of Human Subjects, Women and Minorities, Enrollment, Children

- Week of Jan. 7-11 - Session K8/R8 Breakout
  Review Research Strategy
Other Type Awards

- **Sept. 25 - Session 02** Breakout
  Putting together other-types of application, submission plan

- **Week of Oct. 8-12 - Session 03** Breakout
  Review submission plan &TBD

- **Sessions as needed** Breakout
  Review assignments, submission
Today’s Agenda

- Welcome and Introduction to boot camp
  - Dr. David Niesel

- Why apply for a fellowship/grant?
  - Dr. Niesel

- What type of funding is out there
  - Dr. Karon & Craig Cassidy
  - or understanding the alphabet soup F, K, R, etc..

- Break

- Success stories, F-fellow recipient
  - Alyssa Baker, MD/PhD student

- Success stories, Kempner Scholar (internal grant)
  - Dr. Carla Kantara, Postdoc
  - Trainee recipient

- Success stories, K-fellow recipient
  - Dr. Tim Reistetter, Assist. Prof.

- Grantsmanship
  - Dr. Tom Green, Assist. Prof.

- Assignments
  - Dr. Green
Overview of NIH Funding

- Research Project Grants: $16,139,000,000 (53%)
- Intramural Research: $3,171,000,000 (10%)
- Research Centers: $3,017,000,000 (10%)
- R&D Contracts: $3,979,000,000 (11%)
- Other Research Grants: $1,819,000,000 (6%)
- Research Mgmt & Support: $1,405,000,000 (5%)
- All Others: $825,000,000 (3%)
Approx. Stage of Research Training and Development

**GRADUATE/MEDICAL STUDENT**
- Predoctoral Institutional Training Grant (T32)
- Predoctoral Individual NRSA (F31)
- Predoctoral Individual MD/PhD NRSA (F30)

**POST DOCTORAL**
- Postdoctoral Institutional Training Grant (T32)
- Postdoctoral Individual NRSA (F32)

**CAREER**
- NIH Pathway to Independence (PI) Award (K99/R00)
- Mentored Research Scientist Development Award (K01)
- Mentored Clinical Scientist Development Award (K08)
- Mentored Patient-Oriented RCDA (K23)
- Mentored Quantitative RCDA (K25)
- Independent Scientist Award (K02)
- Midcareer Investigator Award in Patient-Oriented Research (K24)
- Senior Scientist Award (K05)

*Graph represents a small sample of NIH funding mechanisms available.*
Training Grants and Fellowships

Cumulative Number of Positions

Fiscal Year

- Pre-Doctoral Training
- Post-Doctoral Training
- Pre-Doctoral Fellowship
- Post-Doctoral Fellowship

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Pre-Doctoral Training</th>
<th>Post-Doctoral Training</th>
<th>Pre-Doctoral Fellowship</th>
<th>Post-Doctoral Fellowship</th>
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</thead>
<tbody>
<tr>
<td>1998</td>
<td>7,841</td>
<td>5,096</td>
<td>1,154</td>
<td>1,300</td>
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<tr>
<td>1999</td>
<td>7,578</td>
<td>4,917</td>
<td>1,257</td>
<td>1,104</td>
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<tr>
<td>2000</td>
<td>7,552</td>
<td>5,119</td>
<td>1,101</td>
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<tr>
<td>2001</td>
<td>7,827</td>
<td>5,397</td>
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<tr>
<td>2002</td>
<td>8,145</td>
<td>5,525</td>
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<tr>
<td>2003</td>
<td>8,333</td>
<td>5,673</td>
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<tr>
<td>2004</td>
<td>8,483</td>
<td>5,728</td>
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<tr>
<td>2005</td>
<td>8,477</td>
<td>5,650</td>
<td>1,111</td>
<td>1,029</td>
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<tr>
<td>2006</td>
<td>8,343</td>
<td>5,559</td>
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<tr>
<td>2007</td>
<td>8,297</td>
<td>5,498</td>
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<tr>
<td>2008</td>
<td>7,894</td>
<td>5,459</td>
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<td>1,029</td>
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<tr>
<td>2009</td>
<td>7,954</td>
<td>5,477</td>
<td>1,111</td>
<td>1,029</td>
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<tr>
<td>Career Stage of Students, Trainees, Fellows, or Scholars</td>
<td>NIH Formal Training, Fellowship or Career Programs</td>
<td>Research Project Grants</td>
<td>NIH's Own Laboratories</td>
<td></td>
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<td>--------------------------------------------------------</td>
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<td>------------------------</td>
<td>------------------------</td>
<td></td>
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<tr>
<td>High School Students</td>
<td>500+</td>
<td></td>
<td>450+</td>
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<tr>
<td>K-12, Community College, and College Science Teachers</td>
<td>400+</td>
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<tr>
<td>College Students and Post-Baccalaureate Students</td>
<td>3,000+</td>
<td>2,100+</td>
<td>700+</td>
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<tr>
<td>Pre-Doctoral Students</td>
<td>10,000+</td>
<td>28,000+</td>
<td>500+</td>
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<td>Post-Doctoral Fellows</td>
<td>6,800+</td>
<td>15,000+</td>
<td>3,800+</td>
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<td>Early Career Investigators</td>
<td>5,000+</td>
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<td>Mid-Career and Senior Faculty</td>
<td>50+</td>
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Career Development (K) Awards

Note: Fiscal Years 1999-2009 include the following Career Development Awards: K01, K02, K04, K05, K06, K07, K08, K10, K11, K12, K14, K15, K16, K17, K18, K20, K21, K22, K23, K24, K25, K26, K30, K39, K41, K42, and K43.

Fiscal Year 2009 excludes ARRA.
## K99/R00 Awards in 2010

### FY 2010 Awardees

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<tr>
<th></th>
<th>Number</th>
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<tr>
<td><strong>Degree (% of Total)</strong></td>
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<tr>
<td>PhD</td>
<td>88.1</td>
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<tr>
<td>MD</td>
<td>3.6</td>
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<tr>
<td>MD/PhD</td>
<td>6.7</td>
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<tr>
<td>Other</td>
<td>1.5</td>
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<tr>
<td><strong>Median Age (for those reporting)</strong></td>
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<tr>
<td>PhD</td>
<td>34</td>
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<tr>
<td>MD</td>
<td>36</td>
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<tr>
<td>MD/PhD</td>
<td>35.5</td>
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<tr>
<td><strong>Citizenship (% of total)</strong></td>
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<tr>
<td>U.S. citizen</td>
<td>55.2</td>
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<tr>
<td>Permanent resident</td>
<td>17.5</td>
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<tr>
<td>Non-citizen</td>
<td>27.3</td>
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</table>
**Postdoctoral F32 Recipients’ Outcomes**

Within 10 years of completing their fellowship*:

<table>
<thead>
<tr>
<th></th>
<th>Applying for NIH Research Awards</th>
<th>Receiving NIH Research Awards</th>
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</thead>
<tbody>
<tr>
<td>Former NRSA Fellows</td>
<td>45.5%</td>
<td>30.6%</td>
</tr>
<tr>
<td>Other Postdoctoral Fellows</td>
<td>28.6%</td>
<td>16.9%</td>
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*1998-2008