

NIBIB Training and Career Development Programs

**National Institute of Biomedical
Imaging and Bioengineering**



NIBIB Training Program Goals

<http://www.nibib1.nih.gov/training/training.html>

- Provide opportunities for bioengineering and bioimaging training using existing NIH mechanisms and creative approaches.
- Retain flexibility in developing training programs.
- Communication and outreach.
- Fill critical gaps in career continuum and attract students to research careers in bioengineering and bioimaging.
- Enhance participation of under-represented populations.



Training Grants and Fellowship Awards

- NRSA support provides a stipend to pre-doctoral students while they work toward their research degrees or to postdoctoral fellows while they obtain additional research experience in a mentor's laboratory.
 - T32 – Institutional Training Grants
 - F31 – Ruth L. Kirschstein NRSA Individual Predoctoral Fellowships
 - F32 – Ruth L. Kirschstein NRSA Individual Postdoctoral Fellowships
 - F33 – Individual Senior Fellowships

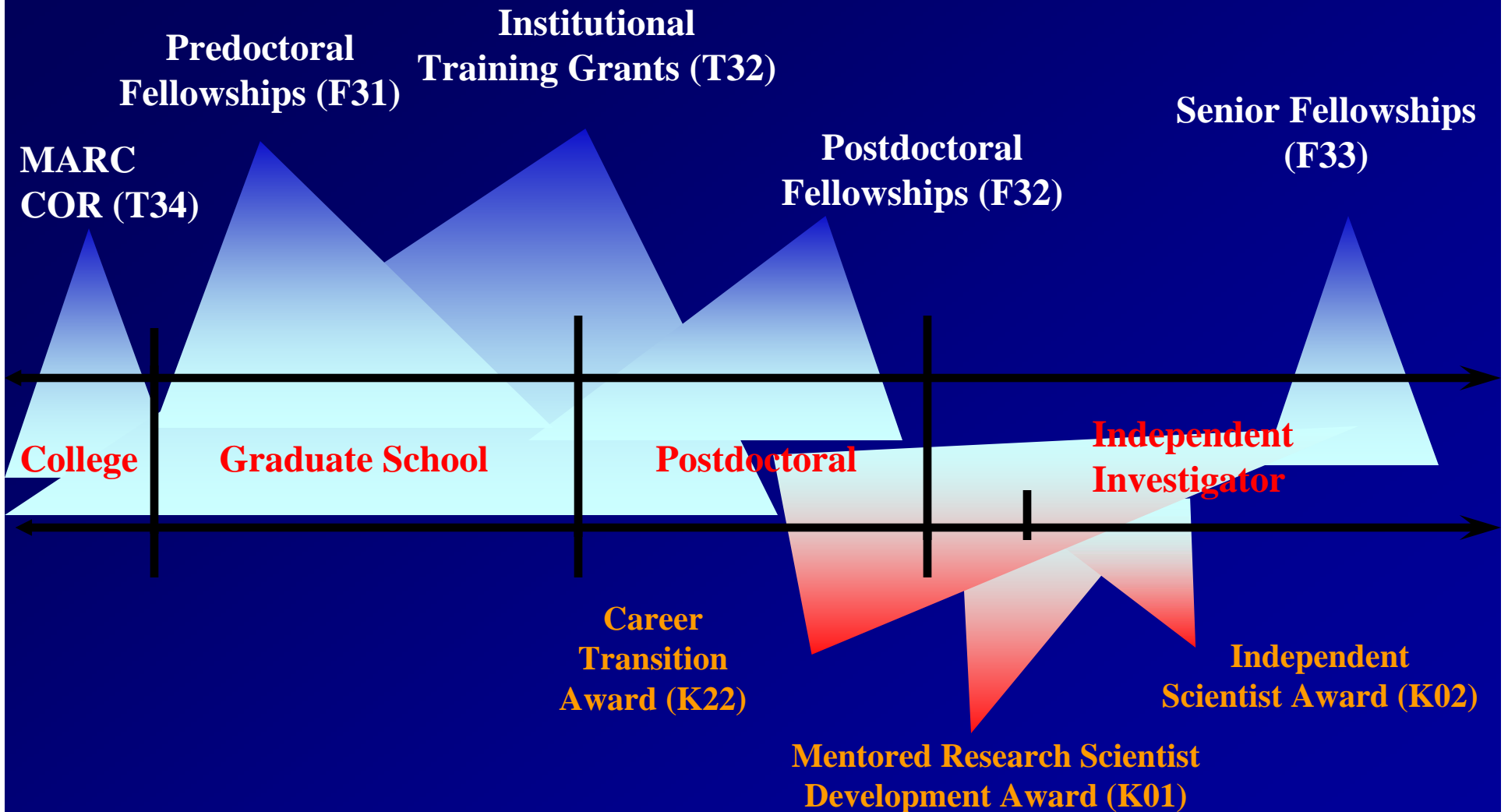


Mentored and Independent Career Development Awards

- Career development awards provide salary and laboratory support for individuals who have completed their postdoctoral training, or who need time to perform research during critical periods of their careers.
 - **K01** – Mentored Research Scientist Development
 - **K08** – Mentored Clinical Scientist Development
 - **K23** – Mentored Patient-Oriented Research Development
 - **K25** – Mentored Quantitative Research Scientist Development
 - **K02** – Independent Scientist Development
 - **K24** – Mid-career Patient-oriented Research Development

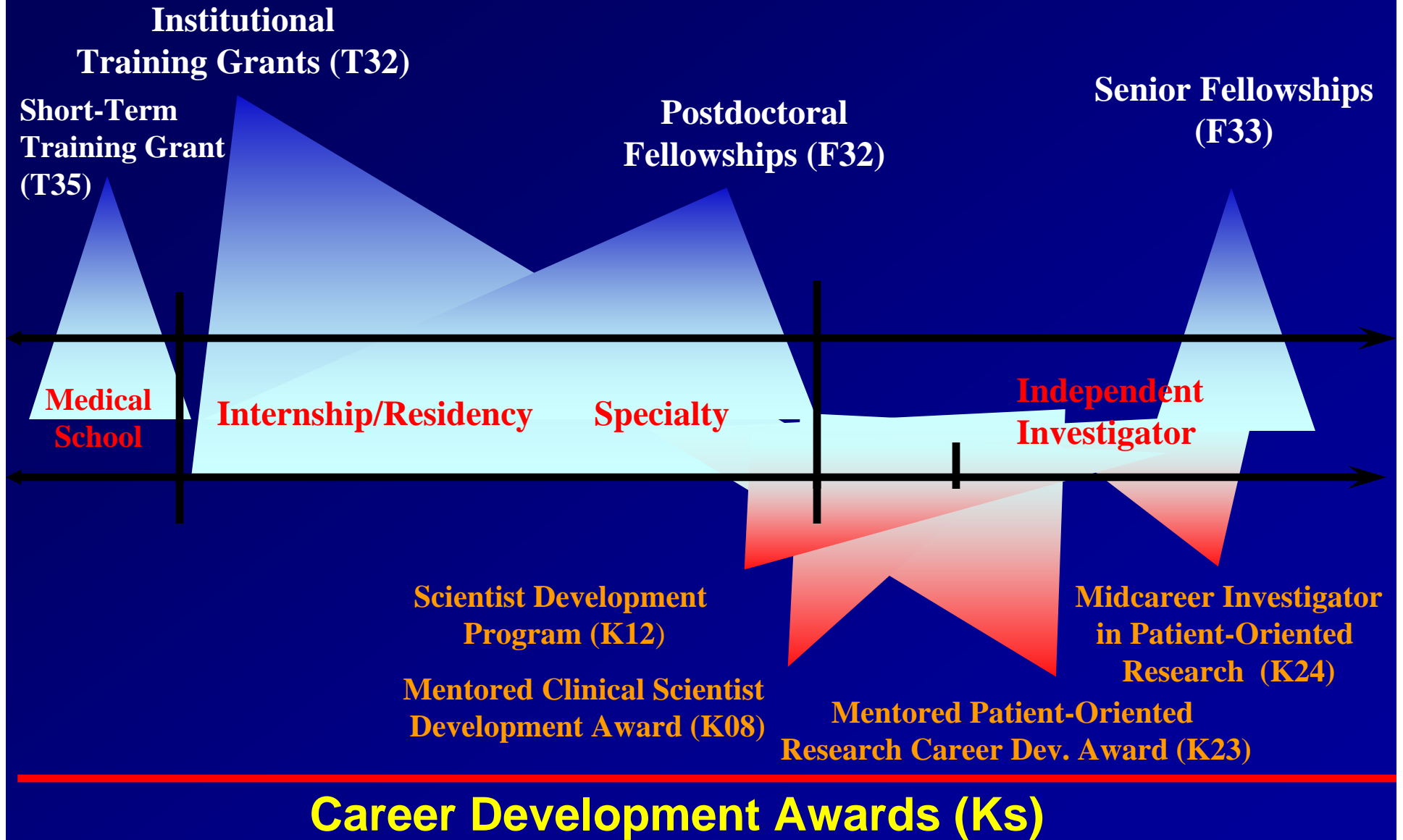


NRSA Fellowships and Training Grants (Fs & Ts)



Career Development Awards (Ks)

NRSA Clinical Fellowships and Training Grants (Fs & Ts)



Other Training and Career Development Opportunities

- Diversity and Career Re-entry Training Supplements.
- Research Supplements to Promote Clinical Resident Experiences.
- HHMI-NIBIB Interfaces Initiative for Interdisciplinary Graduate Research Training.
- NIH/NSF Bioengineering & Bioinformatics Summer Institutes Program (BBSI).
- Biomedical Engineering Summer Internship Program (BESIP).
- NIH/NIST Joint Postdoctoral Program.
- Academic Research Enhancement Award (AREA, R15).
- NIH Loan Repayment Program.



Supplements to Currently Active Research Grants – NIH

- Research Supplements to Promote Diversity in Health-Related Research:
 - A. individuals from underrepresented racial and ethnic groups;
 - B. individuals with disabilities; and
 - C. individuals from socially, culturally, economically, or educationally disadvantaged backgrounds that have inhibited their ability to pursue a career in health-related research.
- Research Supplements to Promote Re-entry into Biomedical and Behavioral Research Careers.



Supplements to Currently Active Research Grants – NIBIB

- **NIBIB Research Supplements to Promote Clinical Resident Research Experiences:**
 - To attract outstanding clinicians into research careers related to the mission of the NIBIB, in order to increase the numbers of residents entering and remaining in NIBIB-focused research careers.
 - Award to an active NIBIB research project grant mechanisms (R01, R37, P01, P41, P50).
 - Proposed research experience related to the ongoing research of parent grant, and potential to contribute significantly to the research career development of the candidate.



Partnerships with Other Agencies

- **NIH/NSF Bioengineering and Bioinformatics Summer Institutes:** 10 week program to attract quantitative science majors (undergraduate and graduate) to biomedical careers.
- **Biomedical Engineering Summer Internship Program (NIH, NIH Found., Whittaker Found.):** 10 week program to provide undergraduate bio-engineering students an opportunity to participate in cutting-edge research at NIH laboratories.
- **NIH/NIST Joint Postdoctoral Program:** 2 year support for postdoctoral fellows, to cultivate a scientific work force competent in both the biological and the physical sciences.



Partnerships with Other Agencies

- **HHMI-NIBIB Interfaces Initiative for Interdisciplinary Graduate Research Training:**
 - Train a cadre of Ph.D. scientists who possess the knowledge and skills to conduct interdisciplinary research at the interface between the biomedical sciences and the physical science, computational, engineering, or mathematical disciplines.
 - Phase I: 3 years, funded by HHMI, supports the establishment of new interdisciplinary training programs. Up to \$10 million for up to 10 institutions.
 - Phase II: 5 years, funded by NIBIB, will sustain the training programs through their critical early years.



Training and Career Planning

- Strategic Implementation
- Needs assessment Study
- Possible concepts under discussion:
 - Postdoctoral-Faculty Transition Award to Assist junior investigators in transition from postdoctoral fellow to faculty position.
 - Opportunities for junior investigators.



General Tips

- **Contact NIH Program staff:**
 - Well in advance of receipt date.
- **Read Application Instructions and Review Criteria:**
 - Critical to a successful application.
- **Explore opportunities at different Institutes and Centers:**
 - Particularly important for the training and career development programs.



Additional Information

■ Contact NIH:

- Training Website: <http://grants1.nih.gov/training/index.htm>
- Training Q&A: <http://grants1.nih.gov/training/q&a.htm>
- Institute Training Contacts:
http://grants1.nih.gov/training/tac_training_contacts.doc

■ Contact NIBIB:

- Training Website: <http://www.nibib.nih.gov/training/training.html>
- Email: hk11b@.nih.gov
- Phone: (301) 451-4792

