



Helping Your Mentees Develop a Competitive K Award Application

(K01, K07, K08, K23, K25, K99)

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Key Features of Mentored K Awards

- 3 – 5 years in length
 - Provide substantial salary support (\$50K - \$180K per year) but limited research funding (\$20K-\$90K per year).
 - Contain both a training plan *and* a research plan.
 - Includes a team of mentors, co-mentors, advisors, etc.
 - Goal: transition to research “independence”.
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NIH Criteria for Evaluating Candidates

- Potential for conducting research.
 - Evidence of originality.
 - Adequacy of scientific background.
 - Quality of research endeavors or publications to date.
 - Need for further research experience and training.
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NIH Criteria for Evaluating the Primary Mentor

- Appropriateness of mentor's research qualifications in the area of the application.
 - Quality and extent of mentor's role in providing guidance and advice to candidate.
 - Previous experience in fostering the development of more junior researchers.
 - History of productivity and support.
 - Adequacy of support for the research project.
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Main Components of a Mentored K Award Application

- Career Development Training Plan
 - Mentoring Plan
 - Institutional Commitment
 - Research Plan
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Developing a Career Development Training Plan

- Understand the *intent* of the mentored K award – which is to help new investigators achieve independence (i.e., to compete successfully for R01-level funding).

Therefore, preparing for the R01 grant application that the candidate will submit at the end of the K award should be the *organizing principle* of the K grant application, which includes both a training plan and a research plan.

Career Development Training Plans (cont'd)

- Make a compelling argument why the mentee needs a K award.
 - Identify critical gaps or deficiencies in the mentee's knowledge or skills.
 - Explain how additional training or mentored research experience in these areas will enable the mentee to compete successfully for R01 funding.
 - Be specific; provide examples.
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Career Development Training Plans (cont'd)

- Develop a career development training plan that is *uniquely* suited to the mentee.
 - Given their previous training and research experience, mentees should propose a mix of didactic training and hands-on research experience that address the gaps or deficiencies in their knowledge or skills.
 - Fully exploit the training opportunities available.
 - The training plan should be as carefully thought out and presented as the research plan.
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Developing a Mentoring Plan

- Describe your mentoring role.
 - If you are the primary mentor, agree to meet with the candidate *weekly* throughout the K award.
 - Include an evaluation component where you meet with other co-mentors/advisers as a group *at least* every 6 months to review the candidate's progress.
 - Include key milestones, such as completing coursework on schedule and submission of manuscripts and grant applications.
 - Keep candidate focused on submitting a *competitive* R01-level application *before* the end of the K award.
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Demonstrating Institutional Commitment

- Institution's commitment to protect at least 75% of the candidate's effort for the proposed career development activities.
- Institution's assurance that the institution intends the candidate to be "*an integral part of its research program.*"
- These assurances are stated in a letter from the department chair or division chief.
 - Note: For fellows and post-docs, this letter *must* state that they will transition from their current position to a "higher" position (ideally, they will be recruited to a full-time faculty position) during the K award period.

Developing a Mentored K Award Research Plan

- 3 things to remember when designing a research plan for a mentored K award:
 1. The research plan is a training vehicle. The research plan should be well integrated with the candidate's training plan and provide an opportunity to acquire new skills.
 2. The research plan is a means to achieve independence. The research plan should be viewed as a precursor for the next state of research – ideally, an R01.
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K Award Research Plans (cont'd)

3. Mentored K awards provide limited funding.
The scope of the research plan needs to be appropriate and feasible, given the modest funding provided by a mentored K award (\$25K-\$50K/year).
 - A “modular” approach is possible, which might include several small projects, such as secondary analyses of existing data, leveraging ongoing studies, or conducting a small pilot studies.
 - All aims should be relevant and integral to the subsequent R01 grant application.
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Insist on Good Grant Writing Work Habits

Don't let your mentee procrastinate: Time is their greatest resource and most important asset.

1. Make sure they get started early (at least 4-6 months before the grant application is due).
 2. Ensure steady progress; the mentee should arrange dedicated time *each week* for grant-writing.
 3. Help them get constructive peer review at critical junctures, well before submission to the NIH.
 4. Insist that they submit *only* their best work.
 1. Shoot for funding on the 1st round!
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Grant Development Resources at UCSF

■ **BREAD • Biostatistics, Research Ethics, and Design Program**

Assistance can be provided in devising appropriate study designs; formulating hypotheses; defining appropriate outcome, predictor, and confounding variables; calculation of sample size and power; outlining appropriate data analysis strategies and tests; and writing or editing sections of the grant application.

- Up to 5 hours of free consultation for fellows/junior faculty applying for a career development award.
- Contact information: CtsiBread@ucsfmedctr.org
Phone: 415-502-7893

Grant Development Resources at UCSF (cont'd)

- **Grant Writing Workshop on Mentored Career Development Awards**
 - 5-week workshop covering K01s, K08s, and K23s.
 - Free of charge/not for credit.
 - Offered 3 times/year: January, May, and September.
 - The next workshop will begin May 5.
 - Register online at:
http://www.epibiostat.ucsf.edu/courses/schedule/grant_writing_spring.html
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