



# 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

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- 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

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- 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

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- 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

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

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- 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.

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# Career Development Training Plans (cont'd)

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- 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)

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- 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

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- 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

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- 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)

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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

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**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 1<sup>st</sup> 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](mailto:CtsiBread@ucsfmedctr.org)  
Phone: 415-502-7893

# Grant Development Resources at UCSF (cont'd)

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- **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](http://www.epibiostat.ucsf.edu/courses/schedule/grant_writing_spring.html)
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