## Training PhD Mentors on Career & Professional Development (CPD)

Sarah Hokanson, Ph.D.
Assistant Provost, Professional
Development & Postdoctoral Affairs

Amanda Bolgioni-Smith, PhD
Assoc. Director of Evaluation, CTSI,
Assistant Professor, Medical Sciences &
Education

1

### Training Landscape

- Workforce is changing availability of faculty jobs diminishing
- Broader skills were always needed (even for faculty jobs!) but are now openly being sought after by employers and students
- Competency-based training provides a framework for students and postdocs to talk about skill development and career preparation
- Funding models at BU vary, and can limit students' or postdocs' ability to prioritize the professional development and internships that would help them broaden their skill set



# What do national trends tell us about biomedical PhD Careers?

- Only 25% of PhD scientists will enter a tenure or tenure-track position<sup>1-3</sup>
  - # of PhD graduates in US has grown ~4X over the last 50 years1-3
  - Growth in employment has occurred almost entirely in industrial sectors<sup>2-5</sup>
  - Graduates are preferentially choosing careers beyond academia<sup>6</sup>

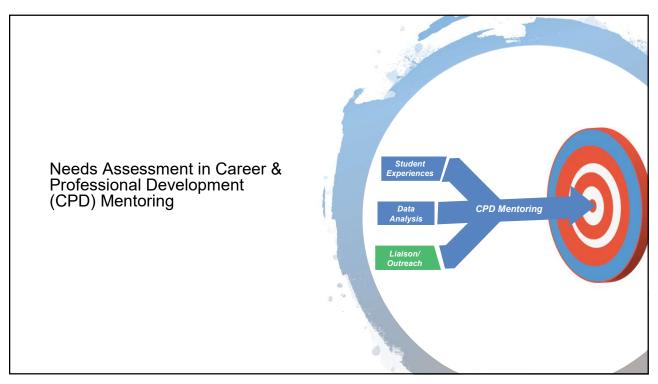
17 Universities Receive R01-like Grant for Broadening Experiences in Scientific Training (BEST) from **NIH Common Fund** 





Director, GMS Professional & Career Development

3



4

#### Postdoctoral Experiences Survey

- Sent to all postdocs annually
- Six sections of the survey: resource use / evaluation; plans for postdoc & career aspirations; experiences at BU; mentoring relationships; sense of belonging and community; demographics
- n = 397 unique responses over four annual surveys (avg 39% response rate)
- 38% of survey respondents from Medical Campus
- Goals 1) develop programs, resources, and policies to better support postdocs; 2) evaluate office

Boston University Professional Development & Postdoctoral Affairs



5

#### **Postdoc Orientation Survey**

- Sent to new postdocs that register for new postdoc orientation
- Since moving to virtual orientations during COVID-19, 90% of postdocs attend orientation and take survey
- Themes cover career aspirations for postdoc, professional development interests, and the opportunity to submit questions





Career planning and aspirations

- 89% of orientation survey respondents rank faculty careers as their first choice
- On average, 21% ranked faculty careers as their first choice in the annual survey
- 65% of postdocs do not have an IDP, only 20% discuss with research supervisor / PI

**Boston University** Professional Development & Postdoctoral Affairs

BOSTON UNIVERSITY



9

#### Key outcomes related to mentoring

- Half of postdocs reported satisfaction in their mentoring relationships with their primary PI / supervisor
- "If you could recommend one action or behavior..."
  - Open minded about non-academic careers
  - Career planning (e.g. talk about IDP)
  - Support postdocs' developing autonomy / independence
  - Spending more time together
  - Increased casual interactions / informal conversations
  - Mindful of postdoc needs as much as their own





 Initiate conversation with trainees about their career and professional development



 Offer dedicated time, space, and opportunity for trainees to explore careers

11

### Breakout group conversation

Prompt: You have been invited to share the results of the Postdoctoral Experiences Survey at Research and Scholarly Activities Committee.

Based on the data, you want to persuade them to create a policy that would require postdocs and mentors to jointly complete an annual career plan / expectations template, submitted to PDPA.

- 1) How would you frame the problem?
- 2) What data would you describe?
- 3) What questions would you want them to reflect on?



