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Post-doc Mentoring

Minerba Betancourt and Bo Jayatilaka SAC meeting
April 19, 2021

Overview

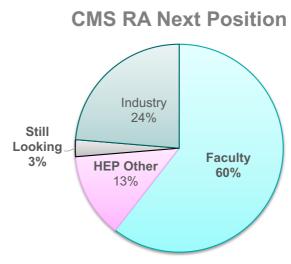
- SAC has been discussing mentoring at Fermilab
- Last year we heard from CMS and neutrino divisions post-doc mentoring programs <u>https://indico.fnal.gov/event/24364/</u>
 - Extremely successful programs
- From the CMS post-doc mentoring program



CMS Postdoc Placement



- Majority of CMS department postdocs have found faculty positions
 - 38 RAs have completed their postdoctoral research on CMS
 - 23 found a tenure track position in HEP at a university (15) or lab (8): 60%
 - → Compared to 20% of physics postdocs (APS)
 - 5 went on to a second postdoc or other position in HEP (one had that goal): 13%
 - 9 got a job in private industry: 24%
 - 1 still looking: 3%



• We have different mentoring programs across the different divisions/departments, some divisions do not have any post-doc mentoring program

Fermilab

Post-doc Mentoring Program at CMS

- Every postdoc has a mentoring team of scientists
 - Chosen by the postdoc to support their career and research
- Postdoc pizza meetings
 - Each postdoc shares their research strategy annually with the CMS department
 - Two high quality talks per meeting of postdoc accomplishments and plans
 - Exiting postdocs brief their colleagues on their experience on the job market
- Mentoring committee meetings:
 - Quarterly meetings gets reports from supervisors on postdocs
 - Committee reviews progress, advises teams, holds team accountable
- Performance reviews
 - Includes the postdoc, their team, and management, for this annual review
 - Focuses on mentoring aspects: visibility, conferences, publications, references
 - Focus on the future as much as possible, in addition to reviewing performance
 - Prepare the postdoc to enter the job market as early as possible
- More details at: https://indico.fnal.gov/event/24364/contributions/76356/attachments/127879/154457/CMS-RA-Mentoring-SAC-2020.pdf



Post-doc Mentoring Program at CMS

• CMS has a guidelines documents for CMS RA supervisors and mentors https://cd-docdb.fnal.gov/cgi-bin/sso/RetrieveFile?docid=5695&filename=FNAL-CMS-RA-Mentoring-Guidelines.pdf&version=2





Post-doc Mentoring Program at Neutrino Division

- Each postdoc in ND is assigned a supervisor and two mentors
 - This is the team that follows the postdoc throughout the duration of their position at the lab
 - Mentors are often not on the same experiment as the post-doc and/or not in the postdoc's field of research
- Postdoc is required to meet with their mentor team every January
 - Postdoc presents what they have accomplished and their upcoming plans
 - New postdocs must have their first meeting with mentors and ND division head
- Division head and deputy division head meet monthly with all ND postdocs
- More details at: https://indico.fnal.gov/event/24364/contributions/76358/attachments/127883/154467/zeller-ND-RA-mentoring-050420.pdf
- ND has an expectations document for supervisors of postdocs: https://
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Post-doc Mentoring Follow up

- The CMS and Neutrino Division mentoring programs have been very successful
- It would be amazing to have more divisions commit to expanding their current postdoc mentoring programs
- · We reached the division heads and asked
 - Would your division be interested in expanding any existent post-doc mentoring program?
- We got positive feedback from all divisions
- Some divisions already have post-doc mentoring programs, for example
 - Astrophysics has a mentoring program for post-docs based loosely on the CMS and the neutrino model
 - Theory department has a mentoring program for post-doc and Associate scientists. In this program each junior member is paired with a senior staff member. The mentor is meant to give advice about issues at work, career advancement opportunities, and anything else related to Fermilab or science in general
 - SCD has a post-doc program based on CMS program (can be thought of as a "lightweight" version of the CMS program)



Discussion about wide-lab Mentoring Guidelines

- Goal is to recommend a wide-lab mentoring guidelines to the directorate
 - Divisions with successful mentoring programs will keep their programs
 - Expand current mentoring programs that could be improved
 - Create postdoc mentoring guidelines to divisions/departments that do not have them
 - A committee with members from all divisions could be created to write general guidelines
- We would like to hear feedback from SAC members
- Current focus is on postdocs but mentoring guidelines for other scientific jobs (esp. associate scientists) would be helpful to many
 - SAC could contribute to these as well

