Graduate Programs at The University of Maine

Jim McClymer
Department of Physics and Astronomy, University of Maine, Orono, ME

THE GRADUATE PROGRAM
1. Semester 1 & 2
   a. classes (typically Mechanics, Math Methods and Grad. Lab- E&M, QM)
   b. picking a research area and advisor.
2. End of Semester 2: beginning Semester 3
   a. Form Committee
      i. 5 members on PhD committee
         1. at least 1 from outside department
         2. non-External Reader
      ii. 3 members on MS
3. Each Semester
   a. Committee Meeting
      i. Student presents research results
      ii. Discuss papers, presentations, support
      iii. Discuss course progress
   b. Discuss each student progress in Faculty Meeting
4. The Graduate Students must meet a group each semester with the Graduate Coordinator and Chair to discuss issues and concerns (as well as to eat pizza).

Support
    • TA (currently $18,800 yr + tuition + 1/2 health insurance)
    • 19 Students
      • Students can stay on TA as long as making satisfactory progress
    • RA (more $5 + tuition + 1/2 health insurance)
      • 15 Students
      • IGERT (much more $ + tuition + 1/2 health insurance), limited to 2 year support
    • 2 Students
    • Compute for a University Fellowship
      • Department must subsidize to bring up to our levels
      • Department typically receive 4 summer fellowships
      • 2008 but year these will be offered

RESEARCH

<table>
<thead>
<tr>
<th>Area</th>
<th># of Thesis/Ed.</th>
<th>Potential Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics Education Research</td>
<td>8</td>
<td>$60K</td>
</tr>
<tr>
<td>Non-Phy.</td>
<td>2</td>
<td>$100K</td>
</tr>
<tr>
<td>Condensed Matter/Soft Mat.</td>
<td>7</td>
<td>$30K</td>
</tr>
<tr>
<td>Engineering</td>
<td>3</td>
<td>$40K</td>
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<tr>
<td>Bio-Physics</td>
<td>1</td>
<td>$30K</td>
</tr>
<tr>
<td>Oceanography, Computer Science, Earth Science, Chemical Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Materials Science</td>
<td>1</td>
<td>$25K</td>
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</tbody>
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1 Center for Science and Mathematics Education Research and associated Masters of Science in Teaching housed in the Department of Physics, 1 Physics faculty

CHALLENGES and CHANGES
- Department demographics
  - Three to four faculty / 3 lecture
  - Faculty age
    - 5 60 years
    - 5 age 50-60
    - 1 tenured retirement/leave retirement
    - 5 young faculty / 2 received tenure in the last two years
  - Approval to hire assistant professor in experimental nanophysics Fall 08
- Tremendous stress to maintain undergraduate, graduate programs and service courses
- Serious discussions to reduce undergraduate course offerings
  - Combining into physics (1 year) for algebra based course and course for engineering technology students
  - Discussing offering some courses once every two years instead of each year
- 2007 Graduate class is first class under new (30 credit) PhD requirements--optional for current students
  - One driver to was to make sure we offered the current needed for degree
  - Previous requirement (42 credits) counted advanced undergraduate courses which worked against our better prepared students who did not need these courses
  - Intent is that students take more than 50 credits.

University of Maine

The University of Maine is an RU/H (Carnegie classification) with approximately 9,500 FTE total students with 2,300 graduate students about equally split between full and part time. The Department has 14 faculty and approximately 40 graduate students, approximately 90% are in the PhD program.

Tenure Track Faculty Position in Experimental Nano-Physics

The University of Maine

Applications are invited for a full-time tenure-track faculty position at the University of Maine in the area of experimental nanophysics with a preferred start date of September 1, 2008 (negotiable). The position is a joint appointment between the Department of Physics & Astronomy (http://www.physics.umaine.edu) and the Laboratory for Surface Science & Technology (http://www.physics.umaine.edu/LASST).

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See Full Position Announcement at http://www.physics.umaine.edu/

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For further information

Please contact PHYSICS@maine.edu or McClymer@maine.edu.

Department Web Site http://www.physics.umaine.edu/