

Welcome Lee Teng Interns and Mentors

Eric Prebys, FNAL
Selection Committee Chair

Second Annual Lee Teng Summer Internship

◉ Joint Argonne/Fermilab Venture

- Patterned after existing internships, but focused on accelerator physics
- Under auspices of virtual “Illinois Accelerator Institute” (also new)
- ~5 students at each lab
- Joint selection process, after which program administered separately at the two labs
- Nominally June 7-August 13, to match SULI/IPM
 - ◉ June 14-June 25 spent at the USPAS (MIT, Boston)
- Student works closely with a mentor on a predetermined project involving accelerator physics or related technology

◉ Eligible

- Physics, Math, Engineering, or Computer Science majors at U.S. Universities (not necessarily U.S. citizens)
- Juniors or outstanding Sophomores

2010 Interns

First	Last	University	Major
Logan	Maingi	University of Oklahoma	Physics (professional) & Mathematics (professional)
Qingyi	Wang	Dartmouth College/ Colby College	Physics, Math, Mecanical Engineering
Muhamme	Sameed	Cornell University	Physics, Mathematics and Mechanical Engineering
Thomas	Schmit	Missouri University of Science and Technology	Physics
Ramesh	Adhikari	Berea College	Physics and Mathematics
Katheryn	French	Massachusetts Institute of Technology	Physics
John	Stogin	Princeton University	Mathematics
Chen	Gong	Ohio Wesleyan University	double major in Physics, Mathematics
Branko	Popovic	University of Iowa	Electrical Engineering
Adam	Alongi	University of Notre Dame	Mathematics and Physics
Kenneth	Schlax	University of Notre Dame	Double Major in Physics and Aerospace Engineering

	2008	2009	2010
Argonne	6	6	5
FNAL	5	5	6
Total offers	13	14	14
Rejections	2	3	3
Males	10	9	9
Females	1	2	3
non-US	3	2	4
Illinois schools	5	2	0
Sophomores	1	3	2
Juniors	10	8	9



Some comments about the program

- ⦿ Accelerator science is a very exciting and growing field
 - High energy and nuclear physics
 - Light sources (materials, biophysics, etc)
 - Spallation neutron sources
 - Medical applications
 - Hadron therapy
 - Isotope production
 - Power production (sub-critical reactors)
 - Security
 - Industrial applications (food sterilization, welding)
 - Art (see T. Johnson's work, 2nd floor)
- ⦿ This program is an excellent opportunity
 - Real world experience
 - USPAS!
 - Good step toward graduate school

2010 Lee Teng Internship Calendar

Program dates: June 7th through August 13th

USPAS: June 14th through June 25th (plus travel days)

All student (optional for mentors) meeting dates:

- 1) Fermilab, Friday, June 11th: orientation, tour of FNAL
- 2) Argonne, Friday, July 9th: tour of ANL, Students will present a short summary of their projects (~10 min/student).
- 3) University of Chicago, Thursday, July 29th: Campus/Department visit
- 4) Fermilab, Friday, Aug. 13th: Students give short presentations of their projects (~15 min/student).

Written paper dates:

- | | |
|---------------------------------------|--|
| Monday July 12 th : | Outline of summer research paper due. |
| | Incorporate feedback from Friday presentation. |
| Monday <u>August 6th</u> : | First draft of paper is due |
| Friday, August 13 th : | Final draft of paper is due |
| | Evaluation of the program due |

About this summer

◉ Make the most of it

- Lots of opportunities to talk to scientists, graduate students and fellow undergrads
 - Don't be shy! (accelerator students can be a bit isolated)
- Lots of opportunities for fun (but keep it legal)

◉ Let us know how it goes

- This is still a pretty new program and we're looking for ways to improve things!

◉ Stay in touch!

- Let us know how you're doing, particularly if you're considering accelerator physics as a career.