

# HEMI Boot Camp 2015

## August 17 - 20, 2015

### August 17

8 am - 9 am

Location: Malone Hall Lobby

#### **Welcome Breakfast**

9 am - 12 pm

Location: Malone Hall, Room G 33 - 35

#### **Shared Facilities**

Includes overviews and information on:

- 9:00: HEMI facilities
- MSE facilities
- Integrated Imaging Center
- Machine Shop
- Micro-fabrication facilities
- 11:00: Integrated campus tour of these facilities

Instructor/moderator: Matt Shaeffer, HEMI Staff Engineer

### August 18

9 am - 1 pm

Location: Malone Hall, Room 328

#### **Research Practices I**

Includes:

- 9:00: Library searches, bibliographies and reference tools  
Instructor: Stephen Stich, Librarian for Science & Engineering, MSE Library
- 10:00: LaTeX and technical writing tools  
Instructor: Dr. Ravi Sastri Ayyagari, Postdoctoral Fellow, HEMI

2 pm - 4pm

Location: Malone Hall, Room 328

#### **Panel Discussion: Succeeding in Graduate School**

Includes information on:

- Work expectations
- Research ethics
- Time management
- Campus resources
- Interactions between research groups
- Social opportunities

Panel: Senior level grad students

*4pm -5 pm*

***Social Event***

Location: TBD

**August 19**

*8 am – 12 pm*

Location: Malone Hall, Room 328

***Research Tools I***

Includes:

- 8:00: Materials Characterization Tools, including SEM  
Instructor: Dr. Lukasz Farbaniec, Postdoctoral Fellow, HEMI
- 9:30: Experimental Methods in Mechanics, including DIC  
Instructor: Dr. Kavan Hazeli, Postdoctoral Fellow, HEMI
- 11:30: Center for Leadership Education  
Presenter: Eric Rice , CLE / Prof. Tim Weihs

*1 pm – 5 pm*

Location: Malone Hall, Room 328

***Research Tools II***

- 1:00: Data management and data sharing  
Instructor: TBD
- 1:30: Computational Tools, including Matlab, Tekplot  
Instructor: Carrie Spear, Sr. Software Engineer, MARCC
- 3:30: High performance computing: access to clusters etc  
Instructor: Carrie Spear, Sr. Software Engineer, MARCC
- 4:00: Python  
Instructor: Dr. Stefanos Papanikolaou, Assistant Research Professor,  
Mechanical Engineering, HEMI

**August 20**

*1:30 pm - 5:30 pm*

Location: Malone Hall, Room G 33 - 35

***Research Practices II***

Includes:

- 1:30: Extreme Science Talk: How to give a presentation
- 2:30: Developing a research overview (e.g. a term paper)
- 3:30: How to write a scientific paper for archival publication
- 5:00: Using references, citations and bibliographies

Instructor: Prof. KT Ramesh, Professor, Mechanical Engineering, Director, HEMI

*5:30 pm*

Location: TBD

***Social Event with Refreshments***