PhD in Informatics

Degree Requirements
The following is a brief synopsis of the general degree requirements; please see the Informatics Institute web site (https://muii.missouri.edu) or the Emphasis in Bioinformatics (http://catalog.missouri.edu/undergraduate/graduate/interdisciplinaryacademicprograms/informatics/phd-informatics-emphasis-bioinformatics) and Emphasis in Health Informatics (http://catalog.missouri.edu/undergraduate/graduate/interdisciplinaryacademicprograms/informatics/phd-informatics-emphasis-health-informatics) for complete details:

• Students must take required and area courses
• Students must pass a qualifying examination
• Students must present at least one institutional seminar annually
• Students are required to complete a comprehensive exam, which includes written and oral elements, within a specified time frame
• Students must pass a comprehensive examination at least 7 months before their scheduled defense
• Students must submit and defend a dissertation describing the results of successful and original research in one of the branches of informatics.
• To show research progress, students are expected to be working toward presenting at conferences and publishing in peer-reviewed journals based on their informatics research.

Admission Contact Information
MUII Staff (mailto: muiiadmissions@missouri.edu)
241 Engineering Building West
Columbia, MO 65211-2060
Phone: 573-882-9007
FAX: 573-884-8709
Informatics Institute (MUII) website: https://muii.missouri.edu/

Admission Criteria
Fall deadline: The deadline for Fall admission is March 1. However, to be considered for departmental and Graduate School fellowships and assistantships, applications should be submitted by January 15th.

• Preferred GPA: 3.3 out of 4.0
• Preferred GRE scores:

| When did you take the GRE? | Verbal + Quantitative | Analytical | |
|---------------------------|-----------------------|------------|
| Prior to August 1, 2011   | 1200                  | 3.5-4.0    | |
| On or After August 1, 2011| 309                   | 3.5-4.0    | |

* or a preferred GMAT score of 570
• Preferred TOEFL or IELTS scores:

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<th>Internet-based test (iBT)</th>
<th>Paper-based test (PBT)</th>
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<tr>
<td>90</td>
<td>577</td>
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Item | Score |
Minimum IELTS Score |
• Sufficient background and training to pursue advanced degree in informatics

All Required Documents
Students are required to send ALL required application materials through the Office of Graduate Studies on-line application system. To begin your application, please see the ApplyYourself website (http://gradschool.missouri.edu/admissions/apply).

1. Curriculum Vitae
2. Statement of Purpose, which should include a summary of why the applicant is interested in pursuing an advanced informatics degree, a brief description of your previous research experiences, the specific area of informatics you are interested in pursuing, and your future career goals and plans in the informatics field.
3. GRE/GMAT scores. Use institution code 6875. The departmental code is not required.
4. TOEFL/IELTS scores for international applicants, if required.
5. Three letters of recommendation from faculty or supervisors who can evaluate the applicant’s credentials and potential to become successful in the area of informatics.
6. Scanned copies of transcripts from each college and university attended. If accepted, applicants will be required to have official copies of their transcripts sent directly from the institution to the Office of Graduate Studies.

Optional Documents
Applicants are encouraged to submit representative publications in informatics, if available.

Exceptional Funding Opportunities - Biomedical Big Data Science Pre-doctoral Training

Funded by NIH T32 (2016-2021)

MU Informatics Institute (MUII) is recruiting SIX top-notch trainees to pursue PhD degree in Informatics through an interdisciplinary training team. Students from basic sciences, life sciences, medicine, and computing disciplines are welcome to apply. Our unique training includes:

1. personalized training modules from core courses of the MS degree in Data Science and Analytics program, Big Data courses from Computer Science, and biomedical informatics courses from MUII, which will expose trainees to the basic concepts, ethics, and working knowledge in Big Data Science; (2) a problem-based learning curriculum in pre-doctoral-level Big Data-related courses, such as Mining Massive Data Sets for Biomedical Applications, designed to foster a team science approach to problem-solving; (3) a student-driven journal club/seminar series, in which students are offered opportunities to present research, pose questions, and receive feedback from peers and mentors. Our interdisciplinary components include (1) required tri-lab rotations to introduce students to animal/veterinary medical research, human medical research, computing/statistical methodologies, and health communications; (2) development of rigorous and reproducible open-source Big Data analytics tools, which will be assessed by the One Health research community after arduous testing; and (3) creation of an Individual Development Plan based on each trainee's background and career goal prior to joining the program. These positions are open to permanent residents and US citizens only. Women and minority students are encouraged to apply.

Please contact the project director Dr. Chi-Ren Shyu at ShyuC@missouri.edu (shyuC@missouri.edu) for inquiries.