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/undergraduategraduate/interdisciplinaryacademicprograms/informatics/phd-informatics-emphasis-bioinformatics) and Emphasis in Health Informatics (http://catalog.missouri.edu/undergraduategraduate/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:

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<thead>
<tr>
<th>When did you take the GRE?</th>
<th>Verbal + Quantitative</th>
<th>Analytical</th>
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<tbody>
<tr>
<td>Prior to August 1, 2011</td>
<td>1200</td>
<td>3.5-4.0</td>
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<tr>
<td>On or After August 1, 2011</td>
<td>309</td>
<td>3.5-4.0</td>
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<td>* or a preferred GMAT score of 570</td>
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<td>* Preferred TOEFL or IELTS scores:</td>
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<td>Internet-based test (iBT)</td>
<td>Paper-based test (PBT)</td>
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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

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.