

ENQUIRE ABOUT MATHEWS AND KAISER FELLOWSHIPS  
FOR PhD STUDENTS



## Aerospace Engineering Graduate Programs

The Aerospace Engineering program at Missouri S&T offers PhD degrees, including direct PhD degrees for students holding a bachelor's degree, MS degrees, both thesis and non-thesis, and a wide variety of certificates.



Our graduate students engage in challenging fundamental and applied research projects under the guidance of world-class faculty (<http://mae.mst.edu/facultyandstaff/directoryfaculty/>) in our newly renovated facilities. Over 97% of our PhD students and over 83% of our MS students conducting research are financially supported by a combination of research assistantships, teaching assistantships, tuition and fee waivers, and fellowships. More information about our research can be found at <http://mae.mst.edu/research/> and more information about our graduate programs can be found at <http://mae.mst.edu/aerospaceengineering/aerospaceengineeringgraduate/>.

### Graduate Coordinator and Staff

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### Admissions Requirements

1. MS degree with a grade point average of 3.5/4.0 (regular PhD), BS grade point average of 3.5/4.0 (direct PhD), or BS degree with a grade point average of 3.0/4.0 (masters and certificate).
2. Minimum GRE Q score of 155, GRE V + Q score of 302 and GRE AW score of 3.5.
3. International students for whom English is not their native language must submit a TOEFL score of at least 570 (PBT), 88 (IBT), or 230 (CBT), IELTS overall score of at least 6.5, or satisfactorily complete an approved English Language Institute program.

# Program Requirements

## REGULAR PHD IN AEROSPACE ENGINEERING

A student wishing to earn a regular PhD in Aerospace Engineering must complete at least 60 total credit hours, at least 24 credit hours of lecture courses, at least 36 credit hours of AE 6099, at least 12 credit hours of course work in the MAE department, at least 3 credit hours of mathematics, statistics, or computer science (AE/ME: 5830 Applied Computational Methods may be used to satisfy this requirement), and at least 9 credit hours of 6xxx courses. The student must also pass the qualifying examination, pass his/her comprehensive examination, meet residency requirements, complete a dissertation, pass his/her final examination, and meet the department's seminar requirements.

## DIRECT PHD IN AEROSPACE ENGINEERING

A student wishing to earn a direct PhD in Aerospace Engineering must complete at least 90 total credit hours, at least 45 credit hours of lecture courses, at least 45 credit hours of AE 6099, at least 21 credit hours of course work in the MAE department (at least 3 credit hours of which is at the 6xxx level), at least 6 credit hours of mathematics, statistics, or computer science (AE/ME: 5830 Applied Computational Methods may be used to satisfy 3 credit hours of this requirement), and at least 15 credit hours of 6xxx courses. The student must also pass the qualifying examination, pass his/her comprehensive examination, meet residency requirements, complete a dissertation, pass his/her final examination, and meet the department's seminar requirements.

## MASTERS OF SCIENCE (THESIS OPTION) IN AEROSPACE ENGINEERING

A student wishing to earn an MS (thesis option) in Aerospace Engineering must complete at least 30 total credit hours, at least 21 credit hours of lecture courses, at least 6 credit hours of AE 6099, at least 9 credit hours of lecture courses in the MAE department (at least 3 credit hours of which is at the 6xxx level), at least 3 credit hours of mathematics, statistics, or computer science (AE/ME: 5830 Applied Computational Methods may be used to satisfy this requirement), and at least 6 credit hours of 6xxx lecture courses. The student must also complete his/her thesis, pass his/her oral examination, and meet the department's seminar requirements.

## MASTERS OF SCIENCE (NON-THESIS OPTION) IN AEROSPACE ENGINEERING

A student wishing to earn an MS (non-thesis option) in Aerospace Engineering must complete at least 30 total credit hours of lecture courses, at least 24 credit hours of lecture courses in the MAE department, and at least 9 credit hours of 6xxx lecture courses (at least 6 of which is in the MAE department).

**AE GRADUATE CERTIFICATES** are specially designed programs consisting of four courses for working professionals to broaden their knowledge in a specific technical area. There are no GRE requirements to enter the graduate certificate programs, and students earning a B or better in all four courses (of either an ME or AE certificate) automatically qualify to enter the AE masters program without meeting the GRE or undergraduate GPA requirements. The graduate certificates include:

Composite Materials & Structures • Control Systems • Energy Conversion & Transport  
Engineering Mechanics • Manufacturing Automation

## FURTHER INFORMATION

- A 50% appointment currently provides \$2000/month. Students with 25% appointments or greater automatically qualify to pay in-state tuition.
- The educational fees for students paying in-state tuition and fees for the 2014 academic year is approximately \$8800.
- Up to 9 credit hours can be transferred from another university for a graduate degree and up to 3 credit hours can be transferred for a graduate certificate.
- Only 24 credit hours are required for a second Masters of Science degree.
- Rolla is a small town in the heart of America's Midwest with easy access to outdoor activities. The cost of living in Rolla is approximately \$1250/month including room and board, personal needs, health insurance, and books and supplies.