



**The Air Force Research Laboratory/
Dayton Area Graduate Studies Institute
Ohio Student-Faculty Graduate Fellowship**



Graduate Student Application – 2015/2016

Applications will be accepted between December 15, 2015 and January 29, 2016. Please review all fellowship guidelines before completing the application.

Note: *Partially completed applications cannot be saved. Please plan accordingly.*

Please fill out the application electronically and print the completed form. If you need more space than provided on the form, type the information on separate sheets and attach them to your application. Put your name on any extra pages, and for reference indicate what section of the application you are addressing.

The completed Graduate Student Application form is a part of an application package consisting of:

- Graduate Student Application Form
- Official Transcript(s)
- Letters of Recommendation
- Faculty Application Form
- Research Proposal
- Budget Proposal Form
- Signature Form

The complete package, including all required forms and information, must be received by DAGSI no later than 5 p.m. EST January 29, 2016. No applications will be accepted after that date. Complete applications may be scanned and emailed to kelam@dagsi.org, faxed to 937-781-4005, or mailed or hand delivered to DAGSI at the address below:

DAGSI, 3155 Research Blvd, Kettering, OH 45420

This form is subject to the Privacy Act of 1974 (5 USC 552A).

I GENERAL INFORMATION (All general information fields are required)

First Name	Admir
Middle Name	
Last Name	Makas
Permanent Address	4148 Reed Way
City	Tipp City
State	OH
Zip	45371
Country	USA
Mailing Address	4148 Reed Way
City	Tipp City
State	OH
Zip	45371
Email Address	makas.2@wright.edu
Date of Birth (mm/dd/yyyy)	05/30/1984
Home Phone Number	719-321-8269
Daytime Phone Number	719-321-8269
Citizenship (You must be a U.S. Citizen to apply)	US Citizen
City, State and Country of Birth	Sarajevo, Bosnia and Herzegovina
Legal resident of what state?	Ohio

VOLUNTARY INFORMATION

The following information is provided voluntarily. It is used in various reports and surveys of state and federal governments and has no influence or bearing on the awarding of fellowships.

Gender ☒ Male
☐ Female

Marital Status ☐ Single
☒ Married
☐ Divorced
☐ Widowed

Ethnic Background ☒ White Non-Hispanic
☐ Black or African-American
☐ Asian or Pacific Islander
☐ Hispanic or Latino
☐ American Indian or Alaskan Native
☐ Other

II PROGRAM INFORMATION

Which research topic are you proposing to pursue? Refer to the table of research topics on the DAGSI web site.

Title

Topic Number

AFRL Sponsor
(Name and Email Address)

Who is the faculty member who will work on this topic with you?

Name

Title/Academic Rank

What level of fellowship award are you applying for? (Should be consistent with your information in Section III.)

MS ☐ Ph.D. ☒

When do you anticipate spending the required research time at AFRL?

How do you anticipate using AFRL and/or university facilities and resources in support of your research? Include an estimate of any computer time required. Students should contact the AFRL topic sponsor(s) listed as well as their faculty partners to discuss the anticipated activities.

Proposed research work is computer based. Wright State University and AFRL have sufficient computer access with the accompanying required software such as ABAQUS, MATLAB, NASTRAN, ASTROS that may be used throughout the research work. Furthermore, frequent travel to AFRL is expected to meet with the AFRL scientists, which work in the Multidisciplinary Science and Technology Center (MSTC).

III ACADEMIC BACKGROUND

Current Highest Technical Degree: ☐ BS Date awarded or expected (mm/yyyy)

☒ MS Date awarded or expected (mm/yyyy)

☐ Other (Explain):

Highest Degree You Anticipate Holding as of 8/1/2016? ☐ BS

☒ MS

Academic Program Enrollment as of Fall Term, 2016: ☐ MS

☒ Ph.D.

Grade Point Average: (Converted to 4.0 System, i.e., A=4.0; B=3.0; C=2.0; D=1.0; F=0.0)

BS

MS

Ph.D.

Colleges and Universities Attended

List in chronological order, beginning with the current or most recent college/university.

College/University	City/State	Inclusive Dates (mm/yyyy - mm/yyyy)	Major Field of Study	Degree Awarded or Expected	Date (mm/yyyy)
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Wright State University, Dayton OH,	06/2015 - Present,	Mechanical Engineering,	Ph.D. expected,	07/2018	
Arizona State University, Tempe AZ,	09/2009 - 07/2011,	Mechanical Engineering,	MS,	08/2011	
University of Colorado, Colorado Springs CO,	09/2002 - 05/2007,	Mechanical Engineering,	BS,	05/2007	

List any fellowships or scholarships relevant to your field that you have been awarded.

List any significant academic honors or other recognition you have received since entering college/university.

Received Outstanding Undergraduate of the Year Award from University of Colorado

IV RESEARCH BACKGROUND

Provide a summary of your research experience. This might include research at the undergraduate level, through summer or part-time employment, or in work-study or internship programs. Describe your role in the research and what you learned from the experience. Cite any professional publications, posters, or presentations you have made or contributed to. If you have no direct research experience, please describe any activities you have undertaken that you think have prepared you sufficiently to undertake research through the AFRL/DAGSI program.

During my tenure at Arizona State Univ. I worked as a research assistant while attaining my MS degree. Research done focused on effects of rolling induced anisotropy on fatigue crack initiation and small crack growth in rolled aluminum alloy AL2024. I designed test samples and fixtures through the use of FEA techniques, which were subsequently used in the experimentation phase. Prepared samples were tested using single and multi-axis tensile machines. Tested samples were post processed using optical and SEM microscopes in order to quantify fatigue performance of the subject alloy. Data acquired from the experimentation phase was used to model fatigue crack behavior using computer simulations for various aircraft structures. Research conducted was part of a greater Multidisciplinary University Research Initiative (MURI) that dealt with structure health monitoring in aerospace vehicles. Research was conducted under the Airforce grant (FA95550-06-1-0309).

Research done was presented at the 2011 TMS Conference and 2011 SPIE Conference

V EMPLOYMENT BACKGROUND

List in chronological order, starting with the most recent, all relevant work experience, including military service.

Employer	Location (City/State/Country if non-US)	Position	Inclusive Dates (mm/yyyy - mm/yyyy)	Full/Part Time
Ftech RnD, Troy/OH, Design Engineer, (11/2012-06/2015), Full Time				
Chrysler/FIAT, Detroit/MI, Test Engineer, (08/2011-06/2012), Contract				
Chromalloy INC, Phoenix/AZ, Design Engineer, (07,2007-09/2009), Full Time				

VI REFERENCES

List the name, position, and contact information for: 1) the faculty member you will work with on the project; and 2) one other person who is able to provide feedback on your capability and potential for AFRL/DAGSI research. Each reference should provide a one-page signed letter of recommendation for the student. **If you are doing a Ph.D.-level project, the letter from your faculty co-researcher must include a statement addressing the level of assistance provided to you in preparing the proposal.**

- Faculty Partner

Name

Academic Rank/Title

Mailing Address

City

State

Zip

Phone

Email

- Other Reference

Name

Academic Rank/Title

Mailing Address

City

State

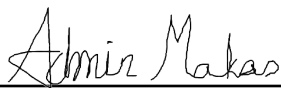
Zip

Phone

Email

VII CERTIFICATION

I certify that to the best of my knowledge the preceding information and all attachments provided herewith are true and accurate. I understand that any misrepresentation of facts on this application will invalidate this application and cause me to be ineligible for an AFRL/DAGSI research fellowship.

SIGNATURE 

DATE 01/22/2016