

## **Two Research Positions for Undergraduate Students in Applied Math and Image Processing**

### **Benefits**

- A competitive stipend of \$2,000 for each student in regular semester or summer (three months)
- Renewable for two terms
- Supervised research on math model and analysis, and SAR imaging processing through an externally funded two-year project at UTPA
- Starting date will begin immediately and continue until the positions are filled.

### **Requirements**

- Mathematics, Computer Engineering or EE majors
- Good GPA (>3.4/4.0) with strong work motivation
- Current or prospective graduate students will all be considered; minority and underrepresented students are encouraged to apply

### **Application Packet**

1. Personal statement explaining your interest, motivation, and qualifications
2. Resume
3. Transcripts
4. Two letter of recommendations
5. Application form

To apply or for more information, please contact Dr. Qiao as follows:

Dr. Zhijun Qiao  
Department of Mathematics  
University of Texas-Pan American  
1201 W University Dr  
Edinburg, TX 78539-2999

Email: [giao@utpa.edu](mailto:giao@utpa.edu)  
Phone: (956) 381-3406  
Fax: (956) 384-5091  
Office: MAGC 3.722

**Application Packet:** The application packet includes 1) Personal Statement, 2) Resume, 3) Transcripts, 4) Two Letters of Recommendation, and 5) Application Form. Please read below for details concerning each of these items. Email, mail or hand in the application packet at Dr. Qiao with contact information on the previous page.

**Deadline:** Accept application until the position is filled. Prefer email application to [qiao2010dodnharp@gmail.com](mailto:qiao2010dodnharp@gmail.com)

## 1. PERSONAL STATEMENT

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Please provide a one-page personal statement and address the following questions/issues in your statement.

- What are your educational and professional goals?  
How will you participate in this “Fourier Integral Operation and Its Applications in Synthetic Aperture Radar (SAR) Image Restoration” research program to pursue those goals?
- Describe your past and current research activities. Do you currently participate in other research programs (e.g. LSAMP, REUs, conducting research with a professor, etc)?
- Discuss any co-curricular (i.e. community service/club involvement) activities and their relevance to your educational goals.

## 2. TRANSCRIPTS

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An unofficial copy of your transcripts must be included in your application packet.

## 3. RESUME

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Include an updated resume.

## 4. LETTERS OF RECOMMENDATION

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Include two letters of recommendation from faculty who supervised your work/taught you.

## 5. APPLICATION FORM

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Complete the application form on the next page.

**Summer Research Position in Applied Math and Image Processing**  
ARPATP Program on Fourier Integral Operation and SAR Image Restoration  
Application Form

Name: \_\_\_\_\_ Date of Birth: \_\_\_\_\_

UTPA Student I.D. \_\_\_\_\_ Gender: \_\_\_\_\_

Current Address: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Classification: \_\_\_\_\_ (Graduate /Prospective Graduate Student)

Major: \_\_\_\_\_ Minor: \_\_\_\_\_

Major GPA: \_\_\_\_\_ Cumulative GPA: \_\_\_\_\_

Degree Sought: \_\_\_\_\_ Expected Graduation Date: \_\_\_\_\_

Other college or university attended (list years and GPA)

1) \_\_\_\_\_

2) \_\_\_\_\_

Are you a US Citizen?

Yes \_\_\_\_\_ No \_\_\_\_\_ If no, attach a copy of your Alien Registration Permanent Resident "Green Card".

Ethnicity: (check one)

- |                                                             |                                                    |
|-------------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> African American                   | <input type="checkbox"/> Hispanic or Latino        |
| <input type="checkbox"/> American Indian or Native American | <input type="checkbox"/> Asian or Pacific Islander |
| <input type="checkbox"/> Other _____ (Please specify)       |                                                    |

TOPICS of INTEREST: (if choose more than one, write 1<sup>st</sup> and 2<sup>nd</sup> to indicate preference)

Model and Analysis \_\_\_\_\_  SAR Imaging \_\_\_\_\_

\_\_\_\_\_  
Talk to Dr. Qiao to learn about the research project that will be carried out in the ARPATP program.

Please sign and date below indicating that you meet the requirements and information in the application is complete and correct.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed name: \_\_\_\_\_