

**SUNRISE RESEARCH FELLOWSHIP**  
**GRADUATE APPLICATION**

1. Name \_\_\_\_\_  
(Last) (First) (Middle)

2. Social Security Number \_\_\_\_\_ Date of Birth \_\_\_\_\_ Age \_\_\_\_\_

3. Present address \_\_\_\_\_  
\_\_\_\_\_

4. Home address (If different from above) \_\_\_\_\_  
\_\_\_\_\_

5. Work Address \_\_\_\_\_  
\_\_\_\_\_

6. Home phone \_\_\_\_\_ Cell phone \_\_\_\_\_

Work phone \_\_\_\_\_ Email \_\_\_\_\_

7. Place of birth (city, state, nation) \_\_\_\_\_

8. Are you a US Citizen or permanent resident? [ ] Yes [ ] No. If Yes, State of legal residency

\_\_\_\_\_

**NOTE: Title VI of the U.S. Civil Rights Act requires Items 9 and 10. George Mason University is an equal opportunity/affirmative action employer. The data collected in 9 and 10 will not be used for Fellowship decision.**

9. Sex:  
[ ] Female [ ] Male

10. Ethnic Origin (check one)  
[ ] Caucasian (not Hispanic) [ ] Hispanic [ ] Asian or Pacific Islander  
[ ] African-American [ ] American Indian [ ] Other (specify) \_\_\_\_\_

11. Former name(s), if any, which may appear on transcripts \_\_\_\_\_

12. Current Status at George Mason University, specify classification (student, employee) \_\_\_\_\_

13. Grade point average (indicate if scale is other than A = 4.0)

High School \_\_\_\_\_ Undergraduate \_\_\_\_\_ Graduate \_\_\_\_\_

14. Degree program in which you wish to study/ are studying \_\_\_\_\_

Current/Expected Date of Joining the Degree Program \_\_\_\_\_

15. Field of interest within the discipline \_\_\_\_\_

Current Research Advisor's Name \_\_\_\_\_ Phone \_\_\_\_\_

16. Number of courses completed in your program \_\_\_\_\_

17. List below in chronological order every college or university you have attended as an undergraduate or graduate student.

NAME OF SCHOOL AND LOCATION	DATES OF ATTENDANCE	LIST ALL DEGREES EXPECTED OR RECEIVED WITH DATES

18. List three (3) persons who are not related to you, and who have direct knowledge of your qualifications and character. At least two of the persons listed below should be faculty members in your major academic field. Please have the Personal Evaluation and Recommendation forms included in this application completed by each of the persons listed below.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

19. Fill out items A, B and C below.

A. Have you been found by any school authorities or by any court to have disrupted or interfered with the orderly conduct, processes, functions or programs of any educational institution?

Yes       No

B. Are you currently charged or have you been convicted or found guilty (even if adjudication withheld) of violating any federal or state law or municipal ordinance other than minor offenses involving a fine of \$25 or less?

Yes       No

C. If you answered yes to either of the above questions (A and B), give details on a separate sheet and attach to this application.

**For priority consideration in the Fellowship competition, applications must be received or postmarked no later than April 30th. In fairness to all applicants, applications received after April 30<sup>th</sup> 2011 will be considered only if there are any unfilled Fellowships by the start date of July 1<sup>st</sup> 2011, and incomplete applications WILL NOT be considered.**

I certify that the information provided in this application is accurate and complete to the best of my knowledge. I understand that falsification of information will be sufficient grounds for disqualification of application, or cancellation of financial award.

Applicant's Signature \_\_\_\_\_ Date \_\_\_\_\_

**SUNRISE RESEARCH FELLOWSHIP  
STATEMENT OF PURPOSE AND CAREER PLANS**

Name \_\_\_\_\_ Date \_\_\_\_\_

Use the space below to provide a **300-500 word typed statement** regarding your current goals and future plans for your professional career. Also explain (a) your reasons for selecting your major field of graduate study, (b) your research at GMU, and (c) what you expect to gain from this Fellowship. If the space below is not sufficient to complete your statement, please continue on a separate sheet and staple the two pages together. Be sure to put your name on both sheets.

**CONFIDENTIAL EVALUATION & RECOMMENDATION FORM**

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**SUNRISE RESEARCH FELLOWSHIP PROGRAM  
CONFIDENTIAL EVALUATION AND RECOMMENDATION FORM**

Applicant \_\_\_\_\_ Degree Sought \_\_\_\_\_

Field of Study \_\_\_\_\_

**TO THE APPLICANT:**

Deliver this form directly to a person who is well acquainted with your academic record and who can speak explicitly about your academic achievements and potential. You should supply this person with a stamped envelope addressed to:

Dr. Rajesh Ganesan  
GMU/NSF SUNRISE Fellows Program  
Dept. of SEOR  
4400 Univ. Dr. MS 4A6  
Fairfax, VA 22030

Please read the following statement carefully. Signing is optional.

The Family Educational Rights and Privacy Act of 1974, as amended, opens many student records, including letters of recommendation, for the student's inspection. The law also permits a student to sign a waiver relinquishing his/her right to inspect letters of recommendation. You are not required to sign a waiver, either for admission or for the Fellowship.

I hereby waive my right of access to this recommendation and any appropriate attachments that have been written by \_\_\_\_\_ (Name of recommender). This waiver is effective insofar as the recommendation is used solely for the purpose of admission or award of Fellowship or other financial aid, if applicable.

Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_  
(Please print)

**TO THE REFEREE:**

The person named above is applying for a SUNRISE Research Fellowship at the George Mason University. These Fellowships are designed to engage graduate students in the challenge of infusing engineering and science principles into K-12 curriculum. SUNRISE is a new NSF funded GK-12 project aimed at partnering STEM (science, technology, engineering, mathematics) graduate students ("Fellows") with school teachers from three different school divisions in Virginia. *The objective of this project is to build a unique model of collaboration among elementary and middle schools, school division administration, and GMU to foster systemic efforts in implementing Information Technology (IT) rich science, technology, engineering and mathematics (STEM) content-knowledge into G4-6 education by graduate Fellows, with the potential to fundamentally change the delivery of science instruction and long term professional development of science teacher.*

Please complete the following items:

- I have known the applicant for \_\_\_\_\_ years as his/her \_\_\_\_\_ (specify relationship).  
I have known him/her \_\_\_\_\_ well or \_\_\_\_\_ only slightly (please choose one).
- Do you believe this candidate will be successful in the degree program designated above?

**CONFIDENTIAL RECOMMENDATION & EVALUATION FORM**

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3. Summary Evaluation: Overall academic ability and promise for research. Comparing the applicant with a representative group of students in the same field who have had approximately the same amount of experience and training, how do you rate him/her in GENERAL ALL-AROUND ACADEMIC ABILITY AND PROMISE FOR RESEARCH?

Below Average	Average	Somewhat Above Average	Good	Unusual	Out-standing	Truly Exceptional	Inadequate Opportunity to Observe
Lowest 40%	Middle 20%	Next 15%	Next Highest 15%	Highest 10%	Highest 10%	Highest 10%	

On a separate sheet of letterhead stationery or in the space below, please write your candid assessment of the applicant's promise as a graduate student in a masters or doctoral program.

**CONFIDENTIAL EVALUATION & RECOMMENDATION FORM**

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Name (please print) \_\_\_\_\_

Date \_\_\_\_\_

Title/position \_\_\_\_\_

Institution \_\_\_\_\_

Email \_\_\_\_\_

Phone \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ St \_\_\_\_\_ Zip \_\_\_\_\_

Signature \_\_\_\_\_

**DEADLINE:**

For priority consideration of the applicant for the Fellowship, please return this form **no later than May 15<sup>th</sup> 2011** to:

Dr. Rajesh Ganesan  
GMU/NSF SUNRISE Fellows Program  
Dept. of SEOR  
4400 Univ. Dr. MS 4A6  
Fairfax, VA 22030

## **SUNRISE: Schools, University 'N' (and) Resources In the Sciences and Engineering-A NSF/GMU GK-12 Fellows Project**

### **INFORMED CONSENT FORM FOR FELLOWS**

(Approved by HSRB at GMU, Protocol # 6617, Original document available with Dr. Ganesan)

#### **RESEARCH PROCEDURES**

This research is being conducted to build a unique model of collaboration among elementary and middle schools, school division administration, and GMU to foster systemic efforts in implementing Information Technology (IT) rich Science, Technology, Engineering, and Mathematics (STEM) content-knowledge into G4-6 education by graduate Fellows, with the potential to fundamentally change the delivery of science instruction and long term professional development of science teachers. If you agree to participate, you will be asked to work in collaboration with teachers from other schools and Fellows (graduate students) from George Mason University to enrich existing science curriculum, learn and improve delivery of science instruction in G4-6, infuse IT rich STEM content-knowledge, participate in professional development workshops/conferences during school year and summer, fill out surveys/questionnaires, participate in interviews with program evaluator, and assess the impact of the project on self and K-12 student learning. The duration of the project is 1<sup>st</sup> July 2007 to 30<sup>th</sup> June 2012. In order to evaluate the long-term impact of the project on its participants, you will be contacted by project researchers with surveys/questionnaires beyond the duration of your direct involvement and even after project's expiry in 2012.

#### **RISKS**

There are no foreseeable risks for participating in this research.

#### **BENEFITS**

The direct benefits to you include

- 1) Transformative experience which includes working with K-12 educators
- 2) Pedagogical Training
- 3) Opportunity to bring science and engineering research to schools
- 4) Improved communication and team building skills
- 5) Additional career option.

#### **CONFIDENTIALITY**

Data will be collected in this study via internet or on paper and they will be confidential. While it is understood that no computer transmission can be perfectly secure, reasonable efforts will be made to protect the confidentiality of your transmission. Most of the surveys will be anonymous and your names or any other identifiers will not be included in them. For identifiable data, wherever applicable your name will not be included in the survey. Instead the survey will have an alphanumeric code and only the researcher or program evaluator will be able to link the code to your identity. All surveys will be received directly by the researcher or program evaluator in sealed envelopes. For surveys conducted at the beginning or end of a workshop, a drop-box system will be used to collect them. All data collected in this research will be securely stored in the project researcher's or program evaluator's office.

## **PARTICIPATION**

You will be compensated for participation in the project as per National Science Foundation (NSF-sponsor) guidelines. Fellows are compensated at \$30,000 per year (12 month appointment) as stipulated by NSF. Travel cost and time are not compensated unless travel is to a state level or national level workshop/conference where prior travel authorization has been obtained from GMU. Each SUNRISE participating Fellow is eligible for up to \$1000 per year in travel to a state level or national level workshop/conference related to this project. Travel rules as stated in GMU's travel policy will be followed for all such travel related compensations. A Fellow can stay in the project for a maximum of 2 years and participation is renewed yearly based on performance. You may withdraw from the study at any time and for any reason. If you decide not to participate or if you withdraw from the study, there is no penalty and the compensation will immediately cease. There are no costs to you or any other party for participation in the project. There will be no course credit for Fellows in this project. Part of the research will be conducted in a G 4-6 classroom where K-12 students are taught new IT rich STEM and exciting science concepts. Prior permission from student's parents will be obtained on a separate informed consent form. However, if there are K-12 students who decide not to participate in the research then the teachers along with K-12 school administrators will arrange to separate such students from the rest of the class and engage them in other academic activities. Still photography or video of your participation in project activities will be taken and included on project website, conference posters/presentations, for publicity, and in project reports.

## **CONTACT**

This research is being conducted by Dr. Rajesh Ganesan, Systems Engineering and Operations Research along with co-investigators from George Mason University and K-12 administration. He may be reached [rganesan@gmu.edu](mailto:rganesan@gmu.edu) or (703)-993-1693 for questions or to report a research-related problem. You may contact the George Mason University Office of Research Subject Protections at 703-993-4121 if you have questions or comments regarding your rights as a participant in the research.

This research has been reviewed according to George Mason University procedures governing your participation in this research.

## **CONSENT**

I have read this form and agree to participate in this study

\_\_\_\_\_

Name

\_\_\_\_\_

Signature

\_\_\_\_\_

Date of Signature

Version date: Nov 12, 2007