**DECLARE SPECIFICATIONS AND SOFTWARE DEVELOPMENT**

**Program Announcement/Call for Proposal:**
- **NSF 98-27**
- **11/02/99**

**For Consideration by NSF Organization Unit(s):**
- **DIRECT FOR COMPUTER & INFO SCIE & ENGINR**

**For NSF Use Only**
- **NSF Proposal Number:** 9971665

**Date Received:**
- **Number of Copies:**
- **Division Assigned:**
- **Fund Code:**
- **DUNS# (Data Universal Numbering System):**
- **File Location:**

**Employer Identification Number (EIN) or Taxpayer Identification Number (TIN):**
- **060646959**

**Name of Organization to Which Award Should Be Made:**
- **Wesleyan University**

**Awardee Organization Code (If Known):**
- **0014241000**

**Name of Performing Organization, If Different from Above:**

**Performing Organization Code (If Known):**

**Is Awardee Organization (Check All That Apply):**
- **For-Profit Organization**
- **Small Business**
- **Minority Business**
- **Woman-Owned Business**

**Title of Proposed Project:**
- **Declarative Specifications and Software Development**

**Requested Amount:**
- $2,500,000

**Proposed Duration (1-60 Months):**
- 60 months

**Requested Starting Date:**
- **06/01/99**

**Check Appropriate Box(es) If This Proposal Includes Any of the Items Listed Below:**
- **Beginning Investigator (GPG 1A.3)**
- **Disclosure of Lobbying Activities (GPG II.D.1)**
- **Proprietary & Privileged Information (GPG II.D.10)**
- **National Environmental Policy Act (GPG II.D.10)**
- **Historic Places (GPG II.D.10)**
- **Small Grant for Explor. Research (SGER) (GPG II.D.12)**
- **Group Proposal (GPG II.D.12)**
- **Vertebrate Animals (GPG II.D.12) IACUC App. Date**
- **Human Subjects (GPG II.D.12) Exemption Subsection**
- **International Cooperative Activities: Country/Countries**
- **Facilitation for Scientists/Engineers With Disabilities (GPG V.G.)**
- **Research Opportunity Award (GPG V.H)**

**PI/PD Department:**
- **Department of Mathematics**

**PI/PD Postal Address:**
- **Dept. of Mathematics**
- **Wesleyan University**
- **Middletown, CT 06457**
- **United States**

**PI/PD Fax Number:**
- **860-685-2571**

**Names (Typed):**
- **James B Lipton**
  - Ph.D.
  - 1990
  - 860-685-2188
  - lipton@wesleyan.edu
- **Daniel J Dougherty**
  - Ph.D.
  - 1982
### Certification for Principal Investigators and Co-Principal Investigators:

I certify to the best of my knowledge that:

1. The statements herein (excluding scientific hypotheses and scientific opinions) are true and complete, and
2. The text and graphics herein as well as any accompanying publications or other documents, unless otherwise indicated, are the original work of the signatories or individuals working under their supervision. I agree to accept responsibility for the scientific conduct of the project and to provide the required progress reports if an award is made as a result of this application.

I understand that the willful provision of false information or concealing a material fact in this proposal or any other communication submitted to NSF is a criminal offense (U.S. Code, Title 18, Section 1001).

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### Certification for Authorized Organizational Representative or Individual Applicant:

By signing and submitting this proposal, the individual applicant or the authorized official of the applicant institution is:

1. Certifying that statements made herein are true and complete to the best of his/her knowledge; and
2. Agreeing to accept the obligation to comply with NSF award terms and conditions if an award is made as a result of this application. Further, the applicant is hereby providing certifications regarding Federal debt status, debarment and suspension, drug-free workplace, and lobbying activities (see below), as set forth in Grant Proposal Guide (GPG), NSF 99-2. Willful provision of false information in this application and its supporting documents or in reports required under an ensuring award is a criminal offense (U. S. Code, Title 18, Section 1001).

In addition, if the applicant institution employs more than fifty persons, the authorized official of the applicant institution is certifying that the institution has implemented a written and enforced conflict of interest policy that is consistent with the provisions of Grant Policy Manual Section 510; that to the best of his/her knowledge, all financial disclosures required by that conflict of interest policy have been made; and that all identified conflicts of interest will have been satisfactorily managed, reduced or eliminated prior to the institution’s expenditure of any funds under the award, in accordance with the institution’s conflict of interest policy. Conflict which cannot be satisfactorily managed, reduced or eliminated must be disclosed to NSF.

**Debt and Debarment Certifications**

- Is the organization delinquent on any Federal debt? **Yes** ☐  **No** ☒
- Is the organization or its principals presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency? **Yes** ☐  **No** ☒

**Certification Regarding Lobbying**

This certification is required for an award of a Federal contract, grant, or cooperative agreement exceeding $100,000 and for an award of a Federal loan or a commitment providing for the United States to insure or guarantee a loan exceeding $150,000.

**Certification for Contracts, Grants, Loans and Cooperative Agreements**

The undersigned certifies, to the best of his or her knowledge, that:

1. No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, “Disclosure Form to Report Lobbying,” in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

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<td><strong>Robert B. Taylor</strong></td>
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**TELEPHONE NUMBER**

**860-685-3683**  
**rtaylor@wesleyan.edu**  
**FAX NUMBER**

**860-685-3120**

*SUBMISSION OF SOCIAL SECURITY NUMBERS IS VOLUNTARY AND WILL NOT AFFECT THE ORGANIZATION’S ELIGIBILITY FOR AN AWARD. HOWEVER, THEY ARE AN INTEGRAL PART OF THE INFORMATION SYSTEM AND ASSIST IN PROCESSING THE PROPOSAL. SSN SOLICITED UNDER NSF ACT OF 1950, AS AMENDED.*