COVER SHEET FOR PROPOSAL TO THE NATIONAL SCIENCE FOUNDATION

PROGRAM ANNOUNCEMENT/SOLICITATION NO./CLOSING DATE/if not in response to a program announcement/solicitation enter NSF 01-2								FOR NSF USE ONLY		
NSF 00-126 01/22/01							NSF P	NSF PROPOSAL NUMBER		
FOR CONSIDERATION	FOR CONSIDERATION BY NSF ORGANIZATION UNIT(S) (Indicate the most specific unit known, i.e. program, division, etc.)									
BCS - ITR SMALL GRANTS										
DATE RECEIVED	NUMBER OF CC	PIES	DIVISION	ASSIGNED	FUND CODE	DUNS# (Data Unive	ersal Numbering System)	FILE LOCATION		
						042092122				
								AL BEING SUBMITTED TO ANOTHER FEDERAL ☐ NO ⊠ IF YES, LIST ACRONYMS(S)		
566000756										
NAME OF ORGANIZATI	ION TO WHICH AWARD	SHOULE	D BE MADE		ADDRESS OF AWARDEE ORGANIZATION, INCLUDING 9 DIGIT ZIP CODE Sponsored Programs Services					
North Carolina State	•				Lower Level Leazar Hall - C.B. 7514					
AWARDEE ORGANIZAT	FION CODE (IF KNOWN)			Raleigh, NC. 276957514						
0029728000										
NAME OF PERFORMING ORGANIZATION, IF DIFFERENT FROM ABOVE ADDRESS OF PERFORMING ORGANIZATION, IF DIFFERENT, INCLUDING					JDING 9 DIGIT ZIP CODE					
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IS AWARDEE ORGANIZ (See GPG II.C For Defin			FIT ORGANIZ			MINORITY BUSINES	SS 🗌 WOMAN-OW	/NED BUSINESS		
TITLE OF PROPOSED I	PROJECT ITR/AP(BCS/G	RS):Com	putational dy	ynamic landsca	e manipulation	n and			
				ource GIS	· ·	L L				
		D DURATION (1-60 MONTHS)				SHOW RELATED P	HOW RELATED PREPROPOSAL NO., F APPLICABLE			
CHECK APPROPRIATE		POSAL IN	ICLUDES ANY	OF THE ITEMS						
	, ,					,	1) IACUC App. Date.			
DISCLOSURE OF LOBBYING ACTIVITIES (GPG II.C) PROPRIETARY & PRIVILEGED INFORMATION (GPG I.B, II.C.6)					HUMAN SUBJECTS (GPG II.C.11) Exemption Subsection or IRB App. Date					
			. ,					Y/COUNTRIES INVOLVED		
☐ HISTORIC PLACES	(GPG II.C.9)				Germ Slo	v				
SMALL GRANT FOR	EXPLOR. RESEARCH	(SGER) (GPG II.C.11)					ERE EXACT COLOR PRETATION (GPG I.E.1)		
PI/PD DEPARTMENT					REFRESENTATI			FRETATION (GFG I.E.T)		
Department of F	Physics		127 Sti	TAL ADDRESS nson Rd.						
PI/PD FAX NUMBER 919-515-6538 Raleigh, N United Sta				h, NC 27695 States						
NAMES (TYPED)		High De		Yr of Degree	Telephone Numbe	er	Electronic Mail Address			
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CO-PI/PD										

NSF Form 1207 (10/00)

CERTIFICATION PAGE

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 proposal.

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).

Name (Typed)	Signature	Social Security No.*	Date
PI/PD		*0]	
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Co-PI/PD		's ai are AST	
Thomas G Drake		are 'e n TLA	
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Robert A St. Amant		ntia AISS	
Co-PI/PD		d d	
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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 debarment and suspension, drug-free workplace, and lobbying activities (see below), as set forth in Grant Proposal Guide (GPG), NSF 01-2. 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.							
Debarment Certification	(If answer "yes", please provide expla	anation.)					
Is the organization or its principals preser from covered transactions by any Federa	ed	Yes 🗖	No 🛛				
Certification Regarding Lobb	ying						
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 and belief, 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.							
AUTHORIZED ORGANIZATIONAL REPR	RESENTATIVE	SIGNATURE		DATE			
NAME/TITLE (TYPED)				01/10/01			
TELEPHONE NUMBER	ELECTRONIC MAIL ADDRESS	.ECTRONIC MAIL ADDRESS FAX			NUMBER		
*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.							