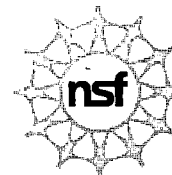


NATIONAL SCIENCE FOUNDATION



NEW JERSEY
JANUARY 75 THRU MARCH 75

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 AWARDS TO THE STATE OF NEW JERSEY
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STATE/ CNTRY	SUBMITTING INSTITUTION PRINCIPAL INVESTIGATORS	PROJECT TITLE / AWARD NUMBER	ANNUAL RATE \$	PROP. AMTS PROP. DUR	AWARD AMTS AWARD DUR
NJ	COL OF MED & DENT OF N J RUTGERS MEDICAL SCHOOL CRANE, ROBERT K	MECHANISM OF INTESTINAL ABSORPTION OF SUGARS BMS-7516319	\$3,150	\$4,200 6 MONTHS	\$3,150 6 MONTHS
NJ	CONSRVTN & ENV STDIES CTR VIVIAN, V E	OUTDOOR BIOLOGY FOR THE MEGALOPOLIS PES-7501957	\$35,678	\$102,340 20 MONTHS	\$59,464 20 MONTHS
NJ	COUNCIL FOR ADV SCI WRIT FRALEY, PIERRE C	A SERIES OF SEMINARS ON SOCIAL SCIENCES SEARCH METHODS FOR REPORTERS AND EDITORS GPP-7504826	\$43,800	\$43,800 24 MONTHS	\$43,800 0 MONTHS
NJ	EDUCATIONAL TESTING SERV KATZ, MARTIN R	SIGI - CONTINUATION OF DEVELOPMENT FIELD TESTING AND RESEARCH EPP-7510128	\$266,000	\$266,000 12 MONTHS	\$266,000 12 MONTHS
NJ	EDUCOM INC EMERY, JAMES C	SIMULATION AND GAMING PROJECT FOR INTER-INSTITUTIONAL COMPUTER NETWORKING DCR-7503634	\$50,000	\$806,700 36 MONTHS	\$150,000 36 MONTHS
NJ	EXXON RES & ENGR COMPANY BARTOK, WILLIAM	FORMATION OF NCX AND OTHER PRODUCTS FROM CHEMICALLY BOUND NITROGEN IN COAL COMBUSTION AER-7503964	\$135,866	\$204,700 36 MONTHS	\$203,800 18 MONTHS
NJ	EXXON RES & ENGR COMPANY BERTRAND, R R	FACULTY RESEACH PARTICIPATION HES-7505125	\$6,960	\$6,960 9 MONTHS	\$6,960 9 MONTHS

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NJ	EXXON RES & ENGR COMPANY SKOPP, ALVIN	FACULTY RESEARCH PARTICIPATION HES-7509320	\$13,920	\$13,920 9 MONTHS	\$13,920 9 MONTHS
NJ	EXXON RES & ENGR COMPANY SKOPP, ALVIN	FACULTY RESEARCH PARTICIPATION HES-7509321	\$6,960	\$6,960 9 MONTHS	\$6,960 9 MONTHS
NJ	EXXON RES & ENGR COMPANY BARTOK, WILLIAM	FACULTY RESEARCH PARTICIPATION HES-7509319	\$6,960	\$6,960 9 MONTHS	\$6,960 9 MONTHS
NJ	INST FOR ADVANCED STUDY KUHN, THOMAS S	THE HISTORY OF QUANTUM PHYSICS SOC-7516592	\$24,600	\$25,200 12 MONTHS	\$24,600 12 MONTHS
NJ	METPATH INC GALEN, ROBERT S	FACULTY RESEARCH PARTICIPATION HES-7504958	\$13,920	\$13,920 9 MONTHS	\$13,920 9 MONTHS
NJ	MONTCLAIR STATE COL MINOR, BEN	INSTRUCTIONAL IMPROVEMENT IMPLEMENTATION FOR SCHOOL SYSTEMS PES-7501965	\$21,804	\$26,553 14 MONTHS	\$25,438 14 MONTHS
NJ	N J INST OF TECHNOLOGY TUROFF, MURRAY	COMPUTER BASED CONFERENCING SYSTEMS DCR-7501306	\$84,100	\$262,900 24 MONTHS	\$84,100 12 MONTHS

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NJ	NEWARK COL OF ENGINEERING LANDSMAN, LEON D	PROJECT PHYSICS IN-SERVICE INSTITUTE PES-7501935	\$7,016	\$12,301 19 MONTHS	\$11,110 19 MONTHS
NJ	NEWARK COL OF ENGINEERING DRESNACK, ROBERT	STUDENT SCIENCE TRAINING FOR HIGH ABILITY SECONDARY SCHOOL STUDENTS EPP-7506415	\$14,400	\$16,400 2 MONTHS	\$14,400 9 MONTHS
NJ	PRINCETON UNIV KULSRUD, RUSSELL M	ACCELERATION AND PROPAGATION OF ENERGETIC PARTICLES IN ASTROPHYSICS MPS-7506345	\$25,000	\$25,000 12 MONTHS	\$25,000 12 MONTHS
NJ	PRINCETON UNIV PHINNEY, ROBERT A LEARY, P C	MAGNETOTELLURIC INVESTIGATIONS OF THERMALLY CONTROLLED CONDUCTIVITY ANOMALIES IN THE WESTERN UNITED STATES DES-7504063	\$25,000	\$53,600 24 MONTHS	\$25,000 12 MONTHS
NJ	PRINCETON UNIV KAUZMANN, WALTER	SCIENTISTS AND ENGINEERS IN ECONOMIC DEVELOPMENT - TRAVEL TO NIGERIA OIP-7504163	\$2,350	\$3,500 6 MONTHS	\$2,350 6 MONTHS
NJ	PRINCETON UNIV DAHLEN, F A	COLLABORATIVE RESARCH IN LOW-FREQUENCY FREE AND FORCED MOTIONS OF THE EARTH DES-7503748	\$10,050	\$22,100 24 MONTHS	\$20,100 24 MONTHS
NJ	PRINCETON UNIV SUPPE, JOHN	THE TECTONIC DEVELOPMENT AND PROGRESSIVE METAMORPHISM OF THE FRANCISCAN TERRAIN, CALIFORNIA DES-7503956	\$20,000	\$49,900 24 MONTHS	\$40,000 24 MONTHS

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NJ	PRINCETON UNIV HOLLISTER, LINCOLN S	METAMORPHIC AND PLUTONIC HISTORY OF THE COAST RANGE, BRITISH COLUMBIA, BATHOLITHIC COMPLEX DES-7503259	\$25,000	\$65,300 24 MONTHS	\$50,000 24 MONTHS
NJ	PRINCETON UNIV KERR, ARNOLO D	FUNDAMENTAL PROBLEMS OF RAILROAD TRACK MECHANICS ENG-7419030	\$30,000	\$94,700 36 MONTHS	\$60,000 24 MONTHS
NJ	PRINCETON UNIV SZYMANSKI, THOMAS G ULLMAN, JEFFREY D	THEORY OF COMPILER DESIGN DCR-7421939	\$62,300	\$124,600 24 MONTHS	\$124,600 24 MONTHS
NJ	PRINCETON UNIV WEVER, ERNEST G	THE EAR AND HEARING BMS-7422616	\$30,000	\$167,700 36 MONTHS	\$60,000 24 MONTHS
NJ	PRINCETON UNIV MANABE, S MIYAKODA, K SMAGORINSKY, JOSEPH	LARGE SCALE ATMOSPHERIC CIRCULATION OCD-7419717	\$36,100	\$36,100 12 MONTHS	\$36,100 12 MONTHS
NJ	PRINCETON UNIV KOSTIN, MORTON D	KINETICS OF ENERGETIC AND EXCITED ATOMS, MOLECULES AND IONS ENG-7423538	\$20,350	\$49,900 24 MONTHS	\$40,700 24 MONTHS
NJ	PRINCETON UNIV WIGHTMAN, A S HOPFIELD, JOHN J	THEORETICAL PHYSICS MPS-7422844	\$58,900	\$133,900 24 MONTHS	\$58,900 12 MONTHS

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NJ	PRINCETON UNIV CHU, T K	TRAVEL TO VISIT PLASMA PHYSICS AND LASER RESEARCH FACILITIES IN PEOPLE'S REPUBLIC OF CHINA, DURING THE PERIOD MARCH 29 THROUGH APRIL 18, 1975 MPS-7518539	\$1,524	\$1,524 6 MONTHS	\$1,524 6 MONTHS
NJ	PRINCETON UNIV GILLISPIE, CHARLES C	DOCTORAL DISSERTATION RESEARCH IN HISTORY OF SCIENCE SOC-7510028	\$1,200	\$1,900 7 MONTHS	\$1,200 12 MONTHS
NJ	PRINCETON UNIV KAUZMANN, WALTER	TRAVEL TO PARTICIPATE IN THE RESEARCH ACTIVITIES OF PROFESSOR BEETLESTONE'S GROUP IN THE PHYSICAL CHEMISTRY OF PROTEINS, IBADAN, NIGERIA, JANUARY 1, APRIL 1, 1975 OIP-7511206	\$1,150	\$1,150 6 MONTHS	\$1,150 6 MONTHS
NJ	PRINCETON UNIV DICKINSON, BRADLEY W	RESEARCH INITIATION: REALIZATION AND STATE VARIABLE CONTROL FOR LINEAR SYSTEMS ENG-7510533	\$11,333	\$17,000 18 MONTHS	\$17,000 18 MONTHS
NJ	PRINCETON UNIV GARVEY, GERALD T	PERSONNEL MOBILITY ASSIGNMENT (IG-00083-001) MPS-7510410	\$577	\$577 6 MONTHS	\$577 6 MONTHS
NJ	PRINCETON UNIV RUSSEL, WILLIAM B	RESEARCH INITIATION: A MECHANISM FOR SHEAR-THICKENING OF MULTIPHASE FLUIDS ENG-7510557	\$11,333	\$17,000 18 MONTHS	\$17,000 18 MONTHS
NJ	PRINCETON UNIV ONEILL, GERARD K	ELEMENTARY PARTICLE PHYSICS MPS-7506856	\$174,300	\$186,100 12 MONTHS	\$174,300 12 MONTHS

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NJ	PRINCETON UNIV SPIRO, THOMAS G	RESONANCE RAMAN SPECTRA AND ELECTRONIC STRUCTURE MPS-7507302	\$35,000	\$60,600 12 MONTHS	\$35,000 12 MONTHS
NJ	PRINCETON UNIV SOCOLOW, ROBERT H HARRJE, DAVID T MATTINGLY, GEORGE E	ENERGY CONSERVATION IN HOUSING APR-7513893	\$33,300	\$33,200 6 MONTHS	\$33,300 6 MONTHS
NJ	PRINCETON UNIV SCHLEYER, PAUL V	CARBONIUM IONS AND FREE RADICALS-REACTIONS, REACTIVITY AND STRUCTURE MPS-7513841	\$48,000	\$48,000 12 MONTHS	\$48,000 12 MONTHS
NJ	PRINCETON UNIV NONE, NONE	SUPPORT FOR NSF GRADUATE FELLOW HES-7514600	\$2,400	\$2,400 13 MONTHS	\$2,400 0 MONTHS
NJ	PRINCETON UNIV BRACCO, F V	MULTI FUEL, OPTIMAL STRATIFICATION IN SPARK IGNITED ENGINES AER-7514124	\$70,000	\$142,400 24 MONTHS	\$70,000 12 MONTHS
NJ	PRINCETON UNIV NONE, NGF	1975 ENERGY-RELATED GRADUATE TRAINEESHIP PROGRAM HES-7514520	\$20,300	\$142,100 36 MONTHS	\$60,900 36 MONTHS
NJ	PRINCETON UNIV GELPERIN, ALAN	BEHAVIOR AND NEUROPHYSIOLOGY OF TASTE-AVERSION LEARNING BMS-7515286	\$8,000	\$8,000 17 MONTHS	\$8,000 0 MONTHS

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NJ	PRINCETON UNIV GLASSMAN, IRVIN SIRIGNANO, WILLIAM A	WORKSHOP ON ENERGY RELATED BASIC COMBUSTION RESEARCH MPS-7515807	\$700	\$700 0 MONTHS	\$700 0 MONTHS
NJ	PRINCETON UNIV WHITE, MILTON G	LOW ENERGY NUCLEAR PHYSICS MPS-7515393	\$39,800	\$40,000 0 MONTHS	\$39,800 0 MONTHS
NJ	PRINCETON UNIV ARDEN, BRUCE W	COMPUTER SCIENCE AND ENGINEERING RESEARCH STUDY DCR-7515491	\$85,000	\$85,800 12 MONTHS	\$85,000 12 MONTHS
NJ	PUBLIC SERV ELEC & GAS CO GUERRA, C R	INTEGRATION OF THERMAL AND FOOD PROCESSING RESIDUALS INTO A SYSTEM FOR COMMERCIAL CULTURE OF FRESH-WATER SHRIMP AND RAINBOW TROUT AEN-7508835	\$95,925	\$127,900 16 MONTHS	\$127,900 16 MONTHS
NJ	RIDER COL SIMPSON, ROBERT L	UNDERGRADUATE RESEARCH PARTICIPATION EPP-7504616	\$9,000	\$25,130 3 MONTHS	\$12,000 16 MONTHS
NJ	RUTGERS UNIVERSITY PAGE, ROBERT H	UNDERGRADUATE RESEARCH PARTICIPATION EPP-7504613	\$8,767	\$11,690 3 MONTHS	\$11,690 16 MONTHS
NJ	RUTGERS UNIVERSITY CARR, HERMAN Y PIFER, JCE H	MAGNETIC RESONANCE STUDIES OF THE PROPERTIES OF MATTER DMR-7504592	\$25,500	\$156,100 24 MONTHS	\$25,500 7 MONTHS

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NJ	RUTGERS UNIVERSITY STRAWDERMAN, WILLIAM E	ADMISSIBILITY AND MINIMAXITY OF STATISTICAL PROCEDURES MPS-7503339	\$7,800	\$25,000 36 MONTHS	\$7,800 12 MONTHS
NJ	RUTGERS UNIVERSITY PLANO, RICHARD J. WATTS, TERENCE L	ELEMENTARY PARTICLE RESEARCH USING BUBBLE CHAMBERS MPS-7506280	\$17,200	\$17,200 12 MONTHS	\$17,200 8 MONTHS
NJ	RUTGERS UNIVERSITY GREITZER, SAMUEL L	PREPARATION OF TEAM FOR INTERNATIONAL MATHEMATICAL OLYMPIAD EPP-7505891	\$12,100	\$11,934 1 MONTHS	\$12,100 6 MONTHS
NJ	RUTGERS UNIVERSITY BARLAZ, JOSHUA	A PRE-COLLEGE INSTRUCTIONAL IMPROVEMENT IMPLEMENTATION PROJECT PES-7502583	\$21,627	\$67,555 19 MONTHS	\$34,244 19 MONTHS
NJ	RUTGERS UNIVERSITY FLETCHER, LEROY S	HEAT TRANSFER FROM THIN WATER FILMS FLOWING OVER HORIZONTAL TUBES ENG-7423177	\$19,950	\$39,900 24 MONTHS	\$39,900 24 MONTHS
NJ	RUTGERS UNIVERSITY ANDERSON, WAYNE A	SILICON SCHOTTKY PHOTOVOLTAIC DIODES FOR SOLAR ENERGY CONVERSION AER-7303197	\$28,700	\$24,500 12 MONTHS	\$28,700 12 MONTHS
NJ	RUTGERS UNIVERSITY TAYLOR, JEAN E	CRYSTALLINE INTEGRANDS IN THE CALCULUS OF VARIATIONS MPS-7507496	\$5,300	\$36,300 24 MONTHS	\$5,300 12 MONTHS

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NJ	RUTGERS UNIVERSITY SHEENEY, WILLIAM	SUBELLIPTICITY FOR DIFFERENTIAL COMPLEXES MPS-7507574	\$8,500	\$19,300 24 MONTHS	\$8,500 12 MONTHS
NJ	RUTGERS UNIVERSITY MUCKENHOPT, BENJAMIN WHEEDEN, RICHARD L	WEIGHTED NORM INEQUALITIES FOR CLASSICAL OPERATORS MPS-7507596	\$21,900	\$116,900 24 MONTHS	\$21,900 12 MONTHS
NJ	RUTGERS UNIVERSITY WALSH, BERTRAM J	POSITIVE LINEAR OPERATORS AND POTENTIAL THEORY MPS-7506968	\$11,300	\$35,500 36 MONTHS	\$11,300 12 MONTHS
NJ	RUTGERS UNIVERSITY TREVES, JEAN F	LINEAR PARTIAL DIFFERENTIAL EQUATIONS MPS-7507064	\$16,100	\$78,400 24 MONTHS	\$32,200 24 MONTHS
NJ	RUTGERS UNIVERSITY BRONZAN, JOHN B LOVELACE, CLAUD W	THEORETICAL PARTICLE PHYSICS MPS-7506857	\$55,800	\$247,800 24 MONTHS	\$55,800 12 MONTHS
NJ	RUTGERS UNIVERSITY WILSON, ROBERT L	CLASSIFICATION OF CERTAIN SIMPLE LIE ALGEBRAS MPS-7507036	\$7,400	\$19,400 24 MONTHS	\$14,800 24 MONTHS
NJ	RUTGERS UNIVERSITY GLABERSON, WILLIAM I	IONS AND VORTICES IN SUPERFLUID HELIUM DMR-7506523	\$20,400	\$85,700 24 MONTHS	\$20,400 12 MONTHS

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NJ	RUTGERS UNIVERSITY NUSSBAUM, ROGER	NONLINEAR FUNCTIONAL ANALYSIS MPS-7506734	\$7,600	\$39,900 24 MONTHS	\$7,600 12 MONTHS
NJ	RUTGERS UNIVERSITY NIEDERMAN, ROBERT A	INDUCTION AND FORMATION OF BACTERIAL MEMBRANOUS ORGANELLES BMS-7515874	\$5,700	\$5,700 0 MONTHS	\$5,700 0 MONTHS
NJ	RUTGERS UNIVERSITY COOK COLLEGE MAMBER, STEPHEN	ANTIBIOTIC-RESISTANT COLIFORMS IN NEW JERSEY RECREATIONAL WATERS EPP-7509164	\$9,380	\$10,530 3 MONTHS	\$9,380 10 MONTHS
NJ	STEVENS INST OF TECH OHRING, MILTON	MASS TRANSPORT AND PHASE TRANSFORMATIONS IN THIN FILMS DMR-7506279	\$35,000	\$113,700 24 MONTHS	\$35,000 12 MONTHS
NJ	STEVENS INST OF TECH MEISSNER, HANS	UNDERGRADUATE RESEARCH PARTICIPATION EPP-7504711	\$6,750	\$9,000 3 MONTHS	\$9,000 16 MONTHS
NJ	STEVENS INST OF TECH BERNSTEIN, JEREMY	ELEMENTARY PARTICLE THEORY MPS-7423168	\$10,000	\$44,700 24 MONTHS	\$10,000 12 MONTHS
NJ	STEVENS INST OF TECH SEIDL, MILOS	NONLINEAR BEAM PLASMA INTERACTION MPS-7514408	\$4,900	\$4,900 12 MONTHS	\$4,900 0 MONTHS

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NJ	TEXTILE RESEARCH INST WEIGMANN, HANS-DIET	SOLVENT INDUCED CRYSTALLIZATION OF POLYMERS DMR-7418675	\$44,200	\$198,300 36 MONTHS	\$88,400 24 MONTHS
NJ	TRENTON STATE COL STAR, AURA E	BIOCHEMICAL SYSTEMATICS OF PITYROGRAMMA BMS-7503722	\$10,000	\$39,800 36 MONTHS	\$20,000 24 MONTHS
NJ	TRENTON STATE COL PREGGER, FRED T	SCIENCE CURRICULUM IMPROVEMENT STUDY PES-7501510	\$13,856	\$24,700 20 MONTHS	\$23,094 20 MONTHS
NJ	UNION CARBIDE CORPORATION KWIATKOWSKI, G T	FACULTY RESEARCH PARTICIPATION HES-7505168	\$6,960	\$6,960 9 MONTHS	\$6,960 9 MONTHS
NJ	UNION CARBIDE CORPORATION ANCKER, F H	FACULTY RESEARCH PARTICIPATION HES-7505175	\$6,960	\$6,960 9 MONTHS	\$6,960 9 MONTHS
NJ	UNION CARBIDE CORPORATION MCMASTER, L P	FACULTY RESEARCH PARTICIPATION HES-7505131	\$6,960	\$6,960 9 MONTHS	\$6,960 9 MONTHS
NJ	WILLIAM PATERSON COLLEGE STEVENSON, ROBERT L	A SCHOOL SYSTEM PROJECT IN INSTRUCTIONAL COMPUTING PES-7501791	\$9,869	\$15,832 21 MONTHS	\$17,272 21 MONTHS
SUB TOTAL			77	\$2,195,505	\$5,108,724
					\$2,811,643