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Your badge number appears on the back of your badge, below and to the right of the magnetic strip. Use the third through seventh digits of this number.

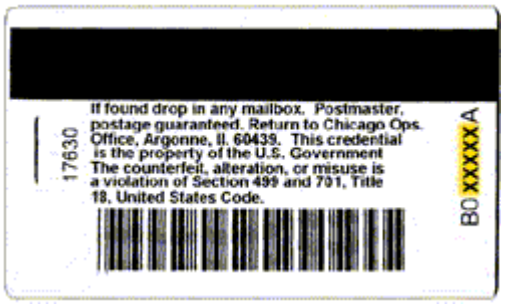
Logon

Badge No.:

Password:

Forgot password

Logon Reset



Not a registered CNM user ? Then register through the User facilities registration system to obtain or activate your badge number.

Questions/Comments | Security/Privacy Notice

Log Out

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Edit/View Existing Proposal

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Proposal Title	Test for demonstration purposes	
How many visits needed to complete experiment	5	(999)
How many days per visit	2	(999)
Time frame for entire project (months)	12	(12 maximum; 24 maximum for beamline only proposals

Unsuitable Experiment Dates

	to		(MM/DD/YYYY)
	to		(MM/DD/YYYY)
	to		(MM/DD/YYYY)

Please select the funding source

- [x] DOE, Office of Basic Energy Science
- [ ] DOE, Office of Biological and Environmental Research
- [ ] DOE, Other (specify)
- [ ] DOD, (specify)
- [ ] NSF
- [ ] NIH
- [ ] NASA
- [ ] USDA
- [ ] Other U.S. Governmer
- [ ] Industry
- [ ] Foreign (specify)
- [ ] Other (Specify)
- [ ] HHIH
- [ ] Howard Hughes Medical Institute (HHMI)
- [ ] NNSA
- [ ] Homeland Security

Specify Other

Please select the field of research

- [x] Materials sciences
- [ ] Physics
- [ ] Chemistry
- [ ] Polymers
- [ ] Medical applications
- [ ] Biological and life sciences
- [ ] Earth sciences
- [ ] Environmental sciences
- [ ] Optics (excluding x-ray optics)
- [ ] Engineering
- [ ] Instrumentation related to user facilities
- [ ] Purchase of specialty service or materials
- [ ] Other (Specify)

Specify Other

Scientifi c Theme

NanoBio Interfaces

Nanophotonics

Are you collaborating with CNM personnel in performing this work or experiment ?	○ Yes	● No
Do you plan to perform this work or experiment with assistance from CNM personnel (Prior permission is required to work without assistance) ?	○ Yes	● No
Is it acceptable to disclose scientific content of this proposal to CNM personnel prior to experimental approval ?	○ Yes	● No
Will the data collected be considered proprietary ?	○ Yes	○ No
Have you contacted CNM scientific staff to discuss the feasibility of your proposal ?	○ Yes	● No

Contact Name(s): CNM staff researcher (Dr. Kate Smith)

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Principal Investigator/Spokesperson: Use Search or complete all fields

Badge:	N0860	First Time User:	N	Coming to CNM:	Y	
Title	Dr.	First Name	Joseph	MI	M	Last Name
Phone	xxx-xxx-xxxx	Fax	xxx-xxx-xxxx	Email	research@am.edu	
Affiliation	American University					
Street	9700 Brown St.					
City	City	State	ST	Zip	12345	
Country	USA					

Collaborators of the PI/Spokesperson Coming to CNM (including CNM personnel):

Delete		Badge (If available)	First Time User	Title	First	MI	Last	Affiliation	St
☐	Search	1111	Y	Mr.	Thomas		Jones	American University	
	Search								
	Search								
	Search								
	Search								

Collaborators of the PI/Spokesperson Not Coming to CNM:

Delete		Badge (If available)	First Time User	Title	First	MI	Last	Affiliation	St
☐	Search	7777	Y	Mr.	G		Collaborator	Another University	
☐	Search	8886	N	Dr.	H		Collaborator	Another University	
	Search								
	Search								
	Search								
	Search								

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Please type your abstract in the space below.
--- Maximum 2000 characters (approx. 250 words) ---

An abstract that summarizes the technical aspects of the project.

Characters Remaining :

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Select the capabilities you will use for your proposed visit to CNM (this cycle only)

Nanophotonics
- ☐ Near-field Scanning Optical Microscopy (NSOM)
  - ☐ Aperture
  - ☐ Apertureless
  - ☐ CW laser excitation
  - ☐ Fiber Puller
  - ☐ Time-correlated single photon counting
  - ☐ Ultrafast laser excitation
- ☑ Confocal Raman Microscope, Renishaw inVia
  - ☐ Temperature-controlled stage
- ☐ Nanophotonics Synthesis Lab
- ☐ Near-IR Microscope
- ☐ Size-selected cluster facility
- ☐ UV-VIS Spectrophotometer, CARY-50
- ☐ Ultrafast microscope
  - ☐ Time-correlated single photon counting
- ☐ Ultrafast transient absorption spectroscopy

Theory and Modeling

Computational Nanoscience Software
- ☐ Dacapo
- ☐ Density-functional-based tight-binding (DFTB)
- ☐ GPaw, a real space, grid-based DFT-PAW code
- ☐ MPI-based parallel versions of the nanophotonics
- ☐ Time-domain nanophotonics simulation package

- ☐ CNM High Performance Computing Cluster (Carbon)

X-ray Microscopy

Hard X-ray Nanoprobe
- ☐ Full Field 2D transmission imaging and tomography
- ☐ Scanning probe X-ray diffraction microscopy
- ☐ Scanning probe X-ray fluorescence microscopy

NanoBio Interfaces
- ☐ Biological Safety Cabinets, Labconco Purifier Delta Series (Cla
- ☐ Centrifuge
  - ☐ Beckman Coulter Avanti J-E Centrifuge
  - ☐ Beckman Coulter Optima L-100 XP Ultracentrifuge
- ☐ EPR
- ☑ Field-emission scanning electron microscope, JEOL JSM7500F
- ☐ Functionalization
- ☐ Glove Box, MBraun LabMaster 130
- ☐ HPLC (LabAlliance)
- ☐ Laser Scanning Confocal Microscope, Zeiss LSM 510 Meta
- ☐ MBraun Glove Box
- ☐ Optical microscope, Zeiss Axio Imager Z1 M Upright
- ☐ Peptide Synthesizer
- ☐ Post-self-assembly processing
  - ☐ dip-coating
  - ☐ external field
  - ☐ spin-coating
  - ☐ ultrasound
- ☐ Schlenk Lines
- ☐ Surface modification of nanoparticles
- ☐ Synthesis
  - ☐ Quantum Dots
  - ☐ metal nanoparticles
  - ☐ metal oxide nanoparticles
- ☐ X-ray absorption and/or scattering
- ☐ ZetaSizer Nano, Malvern (particle size potential)

Electronic & Magnetic Materials & Devices
- ☐ Electrical characterization
  - ☐ Keithley 4200-SCS/F Semiconductor Parameter Analyzer
  - ☐ associated high-sensitivity test systems
- ☐ Langmuir-Blodgett, Kibron MicroTrough X
- ☐ Luminescence spectrometer, Perkin-Elmer LS 55
- ☐ Magnetometry
  - ☐ Quantum Design MPMS-XL
  - ☐ Quantum Design PPMS-9
- ☐ Molecular modeling - EMMD
- ☐ Oxide MBE, DCA R450D Custom

Nanofabrication & Devices
- ☐ FTIR, Matson Genesis II
- ☐ Lithography Exposure
  - ☐ Direct write optical lithography tool
  - ☐ FEI Nova 600 NanoLab DualBeam FIB/SEM
  - ☐ Interferometric lithography tool
  - ☐ JEOL 9300 FS, 100 KV Electron Beam Lithograhpy Too
  - ☐ Karl Suss MA6 optical mass aligner
  - ☐ NanoNex NX3000 Step and Repeat Nanoimprint tool
  - ☐ Oriel exposure tool
  - ☐ Raith 150, 30 KV Electron Beam Lithography Tool

- Physical vapor deposition, common loadlock is shared
  - Lesker CMS18
  - Lesker PVD 250
- Rheometer, AntonPaar Physica MCR301
- STM/SEM Omicron UHV Nanoprobe
- Scanning probe microscope, Veeco Multimode with NanoScope V Controller
  - Contact or tapping mode
  - Fluid imaging
  - Low current scanning tunneling microscopy
  - Magnetic Force
  - Scanning tunneling microscopy
  - Variable temperature imaging (-30 to 250 C)
- Solar simulator, Oriel
- Synthesis Lab - inorganic crystals
- Thermal analysis
  - Differential scanning calorimetry, Mettler Toledo 823
  - Thermogravimetric analysis, Mettler Toledo 851
- UV-Vis-NIR spectrometer, Perkin-Elmer Lamda 950
- VT-UHV-atomic force microscope/scanning tunneling microscope (AFM/STM; Omicron VT-AFM XA)
  - Contact AFM
  - Magnetic force microscopy
  - Non-contact AFM
  - Scanning tunneling spectroscopy
- West-Bond Wire Bonder
- X-Ray diffractometer (Bruker D8 Discover, point detector, VANTEC-1 linear detector)
  - Bragg-Brentano powder
  - Grazing incidence
  - High resolution four-circle
  - Reciprocal space mapping
  - Reflectivity
  - Rocking curves

- Resist Processing
  - Bake Oven
  - HMDS Priming Oven
  - Hot Plates
  - Spin Coaters
- Plasma processing, Oxford Instruments PlasmaLab 100 ICP RI
  - Ar
  - BCl3
  - CHF3
  - CO
  - Cl2
  - HBr
  - O2
  - SF6
- Plasma processing, Oxford Instruments PlasmaLab 100 RIE Fl
  - Ar
  - CF4
  - CH4
  - CHF3
  - H2
  - HCFC-124
  - O2
  - SF6
- Plasma processing, March Plasma Table-Top RIE Chlorine Char
  - Ar
  - CH4
  - Cl2
  - H2
  - O2
- Plasma processing, March Plasma Table-Top RIE Fluorine Chan
  - Ar
  - CF4
  - H2
  - O2
  - SF6
- Plasma processing, Plasma Sciences 600 Table-Top reactive i
  - Ar
  - CF4
  - O2
  - SF6
- Plasma processing, PlasmaTherm Barrel asher system
  - Ar
  - N2
  - O2
- Wet Chemistry Tools
  - Electroforming (Au,Cu,Ni,Pt)
  - Potentiostat
  - Scanning vibrating electrode, Princeton
  - Silicon anisotropic etching, membrane fabrication
  - Wafer rinse dryer tool, 2
  - Wet etching
- Metrology Tools
  - Filmetrics reflectometer
  - Horiba Jobin Yoon UVISEL FUV-NIR Spectroscopic Ellips
  - Olympus MX-61 optical with 250X objective
  - Tencor Alpha Step 500 profilometer
  - Veeco Dektak 8, 3D surface profilometer
- Scanning probe microscopy, PSIA XE-HDD (6-inch wafer)
  - Contact and non-contact modes
  - Magnetic force microscopy
  - Scanning thermal microscopy
- Deposition
  - Atomate Carbon Nanotube CVD (thermal and PECVD) S
  - PECVD Nanocrystalline diamond deposition (Lamda)
- Thermocarbon Dicing Saw

If you are interested in the use of other ANL facilities, you must submit a separate proposal through the appropriate SYSTEM.

- Electron Microscopy Center (EMC)
- Advanced Photon Source (APS)

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Please provide your best estimate (final allocation subject to adjustment)	Other capabilities selected
Field-emission scanning electron microscope, JEOL JSM7500F	
Number of times of use: 4	
Total Hours Of Usage: 16	
Confocal Raman Microscope, Renishaw inVia	
Number of times of use: 3	
Total Hours Of Usage: 24	

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Provide sufficient details within the text boxes below to justify your time request. Complete answers are required here or proposals will be returned (do not use attachments alone to answer the questions - attachments are for ancillary information only).

Click here to attach/detach ancillary file (PDF files only)

Attachments : uwa_report.pdf CNM09_figures.pdf

1. Describe the scientific or technical purpose and the importance of the proposed research (500 words or 4,000 characters).

aaaaaaaaaa

Characters Remaining : 3989

2. Provide a statement describing the scope of work (specific description of research tasks to be carried out at CNM and expected outcomes) (Max 1000 characters).

bbbbbbbbbbbbbb

Characters Remaining : 985

3. Why do you need the CNM for this research (Max 1000 characters)?

cccccccccccccccc

Characters Remaining : 983

4. Why do you need the equipment/capabilities you have chosen (Max 1000 characters)?

dddddddddddddddd

Characters Remaining : 983

5. Describe the participant's previous experience relevant to the proposal and describe the research results obtained (500 words or 4,000 characters).

deeeeeeeeeeeeeeeeeeee

Characters Remaining : 3977

6. Describe the proposed research (including samples and procedures if applicable) and explain the basis for the estimated time request (500 words or 4,000 characters).

ffffffffffffffffffffffffff

Characters Remaining : 3972

7. References, including relevant publications (Max 1000 characters)

gggggggggggggggggg

Characters Remaining : 981

8. Describe briefly the outcome of prior accepted proposals to the CNM (Max 1000 characters)

hhhhhhhhhhhhhhhhhhhhhh

Characters Remaining : 976

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FOR WORK DONE AT THE CNM

Will you bring a Class 3 or Class 4 laser to the CNM ? ○ Yes ◉ No

Will this experiment involve radioactive materials ? ◉ Yes ○ No

Will this experiment involve the use of carcinogens, mutagens, or teratogens at the CNM ? ○ Yes ◉ No

If yes, please identify the chemicals

Will you bring human tissue/materials/cells to the CNM ? ○ Yes ◉ No

If yes, have these samples been approved by your home institution's Institutional Review Board ? ○ Yes ◉ No

Do you plan to handle samples at the CNM in a manner that requires Biosafety level 1 or 2 precautions ? ○ Yes ◉ No

Will you bring samples that are USDOT Select Etiological Agents ?
(see the List Of Agents covered under appendix A 42 CFR 72.6) ○ Yes ◉ No

Research samples used in this project will be :
◉ Synthesized at CNM ○ Supplied by user with additional process at CNM ○ Wholly supplied by user, only characterized at CNM
OR
○ Theory only - no samples are involved

Additional Safety Comments : (limit 500 characters)

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