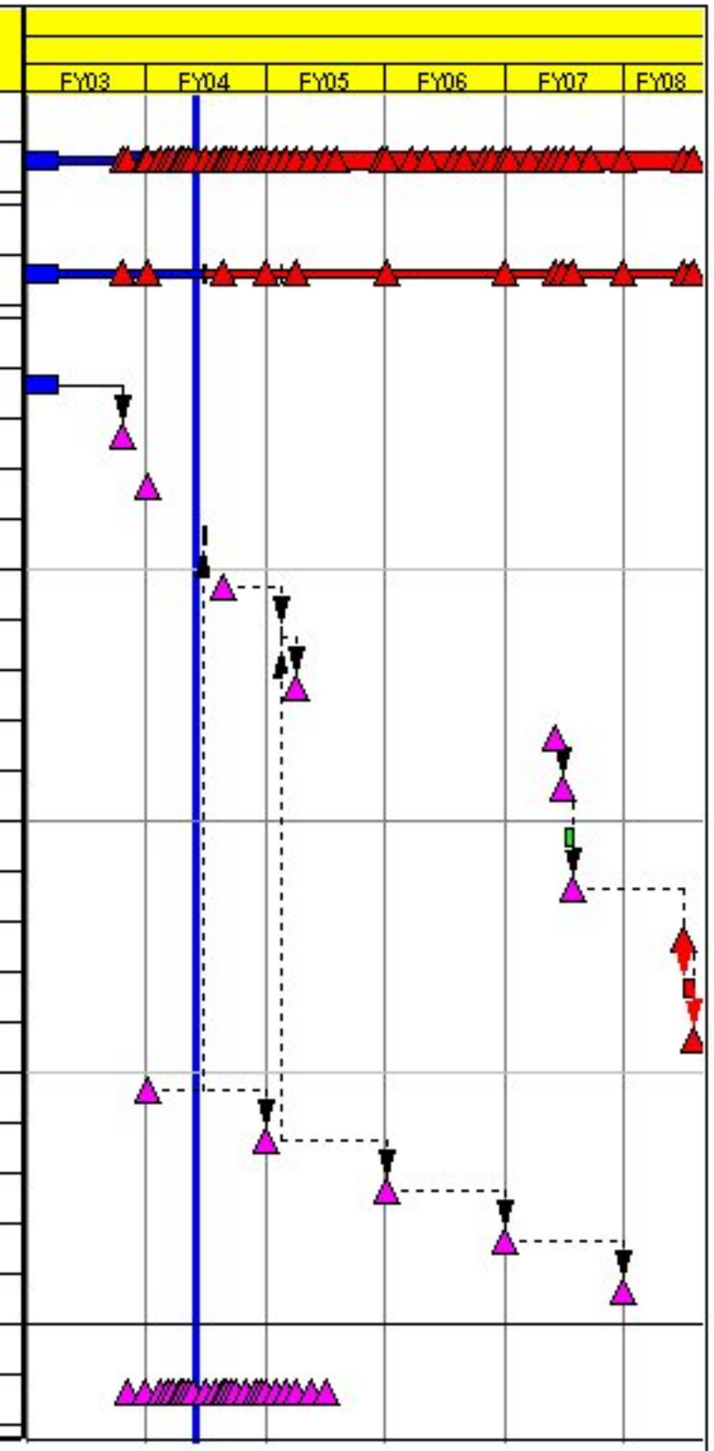
| Activity ID | Activity Description | Budgeted Cost | Orig Dur | Early Start | Early Finish |
|---|---|---|---|---|---|
| **1 CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)** | | | | | |
| Subtotal | | 81,000,000 | 1,473 | 13JUN02A | 30APR08 |
| **1. 0 CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)** | | | | | |
| Subtotal | | 0 | 1,473 | 13JUN02A | 30APR08 |
| 10000005 | C D - 0 APPROVAL - Mission Need | 0 | 0 | | 12JUN02A |
| 10000007 | Conceptual Design Report | 0 | 200 | 13JUN02A | 31DEC02A |
| 10000010 | CD-1 APPROVAL-Alternative Selection & Cost Range | 0 | 0 | | 23JUL03A |
| 10000015 | NEPA (CX) | 0 | 0 | | 06OCT03A |
| 10000018 | EIR | 0 | 5 | 22MAR04* | 26MAR04 |
| 10000020 | C D - 2 APPROVAL-Performance Baseline | 0 | 0 | | 21MAY04 |
| 10000022 | IPR | 0 | 4 | 15NOV04* | 18NOV04 |
| 10000030 | C D - 3 APPROVAL- Start of Construction | 0 | 0 | | 31DEC04 |
| 10000035 | Beneficial Occupancy | 0 | 0 | | 28FEB07 |
| 10000051 | Conventional Construction Complete | 0 | 0 | | 30MAR07 |
| 10000055 | ESAAB/Preparation for ESAAB for CD-4a | 0 | 21 | 02APR07 | 30APR07 |
| 10000057 | CD-4a APPROVAL-Start of Initial Operations | 0 | 0 | | 30APR07 |
| 10000059 | Technical Equipment Installation Complete | 0 | 0 | | 31MAR08 |
| 10000065 | ESAAB/Preparation for ESAAB for CD-4b | 0 | 22 | 01APR08 | 30APR08 |
| 10000069 | CD-4b APPROVAL-Start of Full Operations | 0 | 0 | | 30APR08 |
| 10000200 | Funding Available Fiscal Year 2004 | 0 | 0 | 02OCT03A | |
| 10000202 | Funding Available Fiscal Year 2005 | 0 | 0 | 01OCT04* | |
| 10000204 | Funding Available Fiscal Year 2006 | 0 | 0 | 03OCT05* | |
| 10000206 | Funding Available Fiscal Year 2007 | 0 | 0 | 02OCT06* | |
| 10000208 | Funding Available Fiscal Year 2008 | 0 | 0 | 01OCT07* | |
| **1. 1 PROJECT SUPPORT** | | | | | |
| Subtotal | | 8,537,630 | 1,188 | 01AUG03A | 28APR08 |




| | | |
|---|---|---|
| Start Date | 27MAR02 | Early Bar |
| Finish Date | 30APR08 | Progress Bar |
| Data Date | 01MAR04 | Critical Activity |
| Run Date | 15JUN04 12:37 | |

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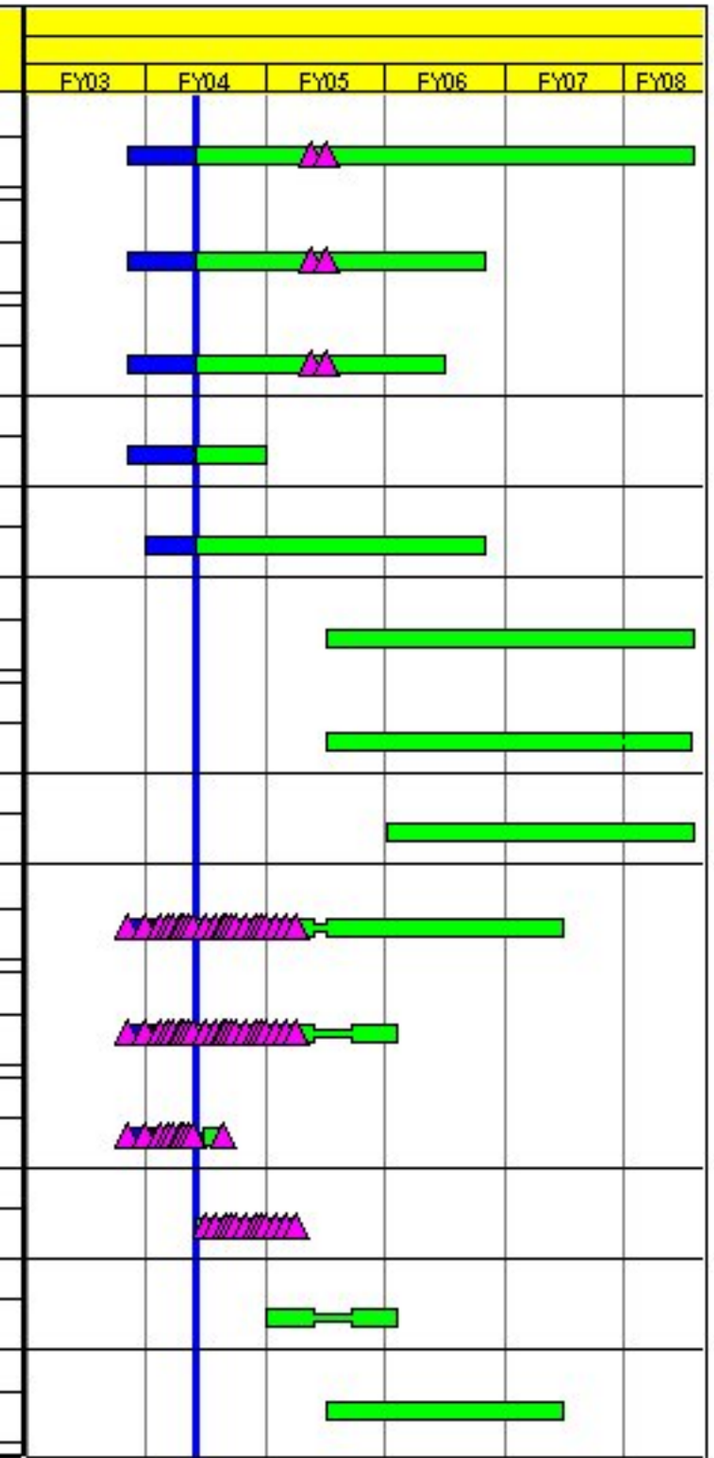
CF18 Sheet 1 of 3

**Brookhaven National Laboratory**
**CENTER for FUNCTIONAL NANOMATERIALS**
**[C F N]**

**Summary Schedule**

| Activity ID | Activity Description | Budgeted Cost | Orig Dur | Early Start | Early Finish |
|---|---|---|---|---|---|
| **1. 1.1 Project Management** | | | | | |
| Subtotal | | 4,165,589 | 1,188 | 01AUG03A | 28APR08 |
| 1. 1.1 .1 Project Management - Design Phase | | | | | |
| Subtotal | | 2,080,560 | 751 | 01AUG03A | 31JUL06 |
| +1. 1.1 .1 .1 PM - Conventional Design | | | | | |
| | | 1,541,034 | 668 | 01AUG03A | 31MAR06 |
| +1. 1.1 .1 .2 DM - Conventional Design | | | | | |
| | | 352,345 | 293 | 01AUG03A | 30SEP04 |
| +1. 1.1 .1 .3 PM - Technical Design | | | | | |
| | | 187,181 | 709 | 01OCT03A | 31JUL06 |
| 1. 1.1 .2 Project Management - Construction Phase | | | | | |
| Subtotal | | 2,085,029 | 771 | 01APR05 | 28APR08 |
| +1. 1.1 .2 .1 PM - Conventional Construction | | | | | |
| | | 2,005,085 | 769 | 01APR05 | 24APR08 |
| +1. 1.1 .2 .2 PM- Technical Equipment | | | | | |
| | | 79,944 | 644 | 03OCT05 | 28APR08 |
| **1. 1.2 Project Engineering** | | | | | |
| Subtotal | | 4,372,041 | 917 | 01AUG03A | 30MAR07 |
| 1. 1.2 .1 Project Engineering - Design Phase | | | | | |
| Subtotal | | 3,250,779 | 565 | 01AUG03A | 31OCT05 |
| +1. 1.2 .1 .1 PE/AE Title I | | | | | |
| | | 1,375,300 | 203 | 01AUG03A | 21MAY04 |
| +1. 1.2 .1 .2 PE/AE - Title II | | | | | |
| | | 1,022,000 | 212 | 01MAR04 | 31DEC04 |
| +1. 1.2 .1 .3 PE Technical Design | | | | | |
| | | 853,479 | 272 | 01OCT04 | 31OCT05 |
| 1. 1.2 .2 Project Engineering - Construction Phase | | | | | |
| Subtotal | | 1,121,262 | 500 | 01APR05 | 30MAR07 |




| | | | |
|---|---|---|---|
| Start Date | 27MAR02 | Early Bar | |
| Finish Date | 30APR08 | Progress Bar | |
| Data Date | 01MAR04 | Critical Activity | |
| Run Date | 15JUN04 12:37 | | |

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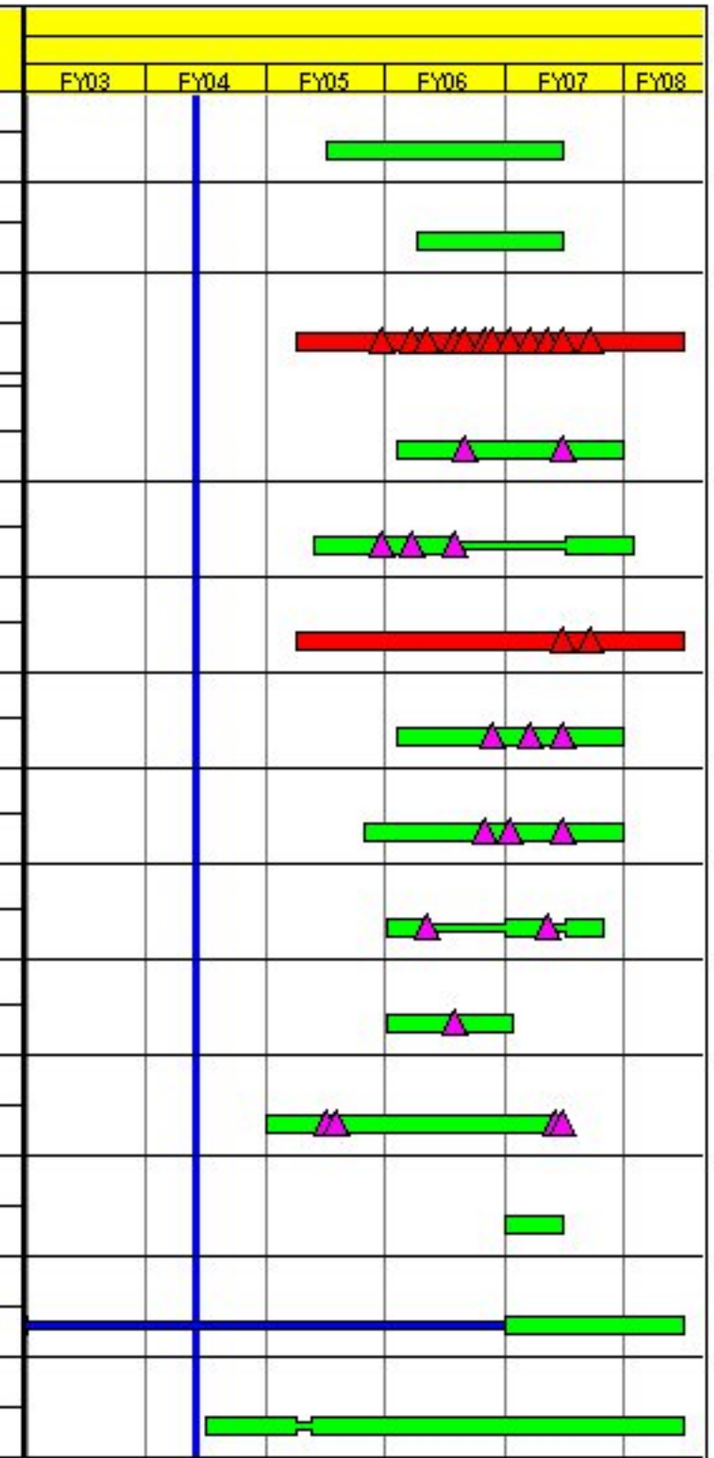
CF18 Sheet 2 of 3

**Brookhaven National Laboratory**
**CENTER for FUNCTIONAL NANOMATERIALS**
**[C F N]**

**Summary Schedule**

| Activity ID | Activity Description | Budgeted Cost | Orig Dur | Early Start | Early Finish |
|---|---|---|---|---|---|
| +1.1.2.2.1 | PE Conventional Construction | | | | |
| | | 857,931 | 500 | 01APR05 | 30MAR07 |
| +1.1.2.2.2 | PE Technical Equipment | | | | |
| | | 263,331 | 312 | 02JAN06 | 30MAR07 |
| **1.2 Technical Equipment** | | | | | |
| Subtotal | | 26,393,156 | 813 | 03JAN05 | 31MAR08 |
| **+1.2.1** | **Nanopatterning [N P]** | | | | |
| | | 7,471,464 | 478 | 01NOV05 | 28SEP07 |
| **+1.2.2** | **Ultrafast Optical Sources [U F]** | | | | |
| | | 3,042,384 | 676 | 23FEB05 | 31OCT07 |
| **+1.2.3** | **Electron Microscopy [E M]** | | | | |
| | | 5,849,671 | 813 | 03JAN05 | 31MAR08 |
| **+1.2.4** | **Material Synthesis [MS]** | | | | |
| | | 2,759,406 | 478 | 01NOV05 | 28SEP07 |
| **+1.2.5** | **Proximal Probes [P P]** | | | | |
| | | 5,627,986 | 548 | 25JUL05 | 28SEP07 |
| **+1.2.6** | **Theory & Computation [T & C]** | | | | |
| | | 602,518 | 457 | 03OCT05 | 31JUL07 |
| **+1.2.7** | **CFN End Stations at NSLS** | | | | |
| | | 1,039,727 | 268 | 03OCT05 | 25OCT06 |
| **+1.3** | **Conventional Construction** | | | | |
| | | 32,348,616 | 624 | 01OCT04 | 30MAR07 |
| **+1.4** | **Standard Equipment** | | | | |
| | | 903,142 | 123 | 02OCT06 | 30MAR07 |
| **+1.5** | **Other Project Costs** | | | | |
| | | 1,300,000 | 1,451 | 13JUN02A | 31MAR08 |
| **+1.6** | **Contingency** | | | | |
| | | 11,517,456 | 1,002 | 01APR04 | 31MAR08 |




| | |
|---|---|
| Start Date | 27MAR02 |
| Finish Date | 30APR08 |
| Data Date | 01MAR04 |
| Run Date | 15JUN04 12:38 |

Early Bar
Progress Bar
Critical Activity

CF18 Sheet 3 of 3

**Brookhaven National Laboratory**
**CENTER for FUNCTIONAL NANOMATERIALS**
**[C F N]**

**Summary Schedule**

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