

Table 1 shows the beamlines managed by COMPRES, with the fraction of that beamline available to COMPRES. The current and future sources for most of these beamlines are shown in Figure 3.

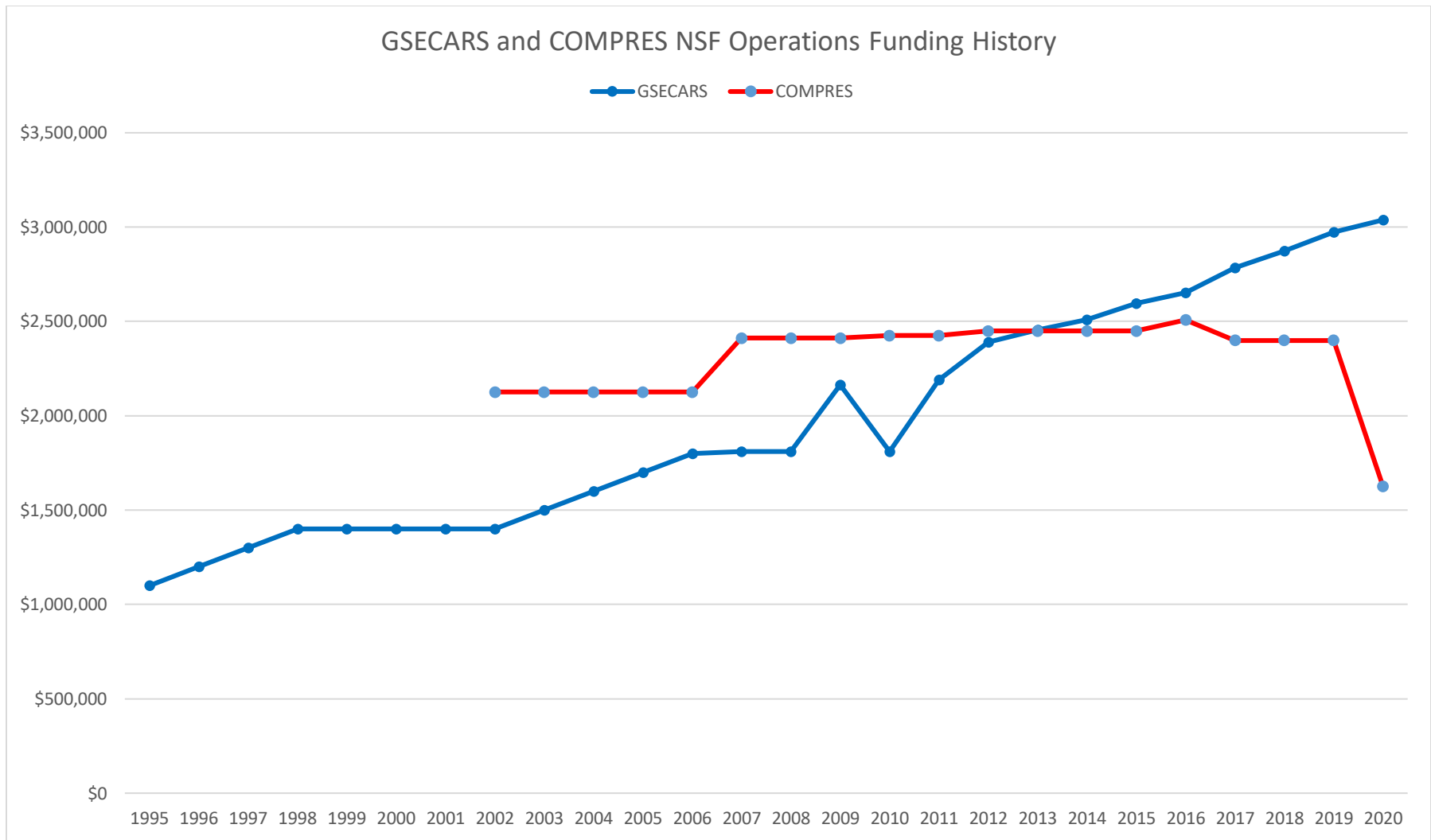
| <b>COMPRES beamline</b>               | <b>Fraction of beamline</b> | <b>Current source</b>                | <b>Future source</b>                          |
|---------------------------------------|-----------------------------|--------------------------------------|---|
| ALS 12.2.2 (diamond cell)             | 0.50                        | ALS super-bend (ALS SB).             | ALS upgrade bend (ALS-U B)                    |
| NSLS-II FIS (infrared)                | 0.50                        | NSLS-II infrared                     | NSLS-II infrared                              |
| APS 6-BM-B (multi-anvil)              | 0.50                        | APS bending magnet (APS BM)          | APS upgrade bending magnet (APS-U BM)         |
| NSLS-II XPD (multi-anvil)             | 0.25                        | NSLS-II damping wiggler (NSLS-II DW) | NSLS-II superconducting wiggler (NSLS-II SCW) |
| APS Sector 3, 30 (nuclear, inelastic) | 0.60                        | APS undulator                        | APS-U undulator                               |
| APS 13-BM-C PX2 (diamond cell)        | 0.35                        | APS bending magnet (APS BM)          | APS-U bending magnet (APS-U BM)               |
| <b>Total</b>                          | <b>2.70</b>                 |                                      |   |

Note that the PX2 project on APS 13-BM-C is run jointly by COMPRES and GSECARS and receives about 70% of the time. We have assigned 0.35 fraction of this beamline to COMPRES, 0.35 to GSECARS as part of PX2, and 0.30 to GSECARS for other programs.

Table 2 shows the beamlines managed by GSECARS, with the fraction of that beamline available to GSECARS users

| <b>GSECARS beamline</b> | <b>Fraction of beamline</b> | <b>Current source</b>                | <b>Future source</b>                   |
|-------------------------|-----------------------------|--------------------------------------|--|
| 13-BM-D                 | 1.00                        | APS bending magnet (APS BM)          | APS upgrade bending magnet (APS-U BM)  |
| 13-BM-C                 | 0.65                        | APS bending magnet (APS BM)          | APS upgrade bending magnet (APS-U BM)  |
| 13-ID-C/D               | 1.00                        | APS 30 mm period undulator (APS U33) | APS upgrade 28mm undulator (APS-U U28) |
| 13-ID-E                 | 1.00                        | APS 36 mm period undulator (APS U36) | APS upgrade 33mm undulator (APS-U U33) |
| <b>Total</b>            | <b>3.65</b>                 |                                      |  |

(See the note for 13BM-C PX2 with Table 1 above)



**History of COMPRES and GSECARS NSF EAR-IF Operations Funding. This does not include operations support for GSECARS from DOE, or other sources of support.**

## Current operations

Table 1 shows all of the staff currently supported by GSECARS and COMPRES. It includes the type of position, which facility pays for the position, the location of the staff, the employer, and the fraction of full-time for the position.

**Table 1. Staff supported by GSECARS and COMPRES**

| Name              | Position              | Award                | Location | Employer            | FTE   |
|-------------------|-----------------------|----------------------|----------|---------------------|-------|
| Mark Rivers       | Beamline scientist    | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Stephen Sutton    | Beamline scientist    | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Peter Eng         | Beamline scientist    | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Tony Lanzirotti   | Beamline scientist    | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Matthew Newville  | Beamline scientist    | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Vitali Prakapenka | Beamline scientist    | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Joanne Stubbs     | Beamline scientist    | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Sergey Tkachev    | Beamline scientist    | GSECARS &<br>COMPRES | APS      | Univ. Chicago       | 1.00  |
| Yanbin Wang       | Beamline scientist    | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Tony Yu           | Beamline scientist    | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Stella Chariton   | Post-doc              | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Tim Officer       | Post-doc              | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Young-Jay Rhu     | Post-doc              | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Anna Wanhala      | Post-doc              | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Mike Proskey      | Mechanical engineer   | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Malcolm Spears    | Mechanical technician | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Lino Di Donna     | Electronic engineer   | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Guy Macha         | Mechanical engineer   | GSECARS              | APS      | Univ. Chicago       | 0.50  |
| Nancy Lazarz      | Administrative        | GSECARS              | APS      | Univ. Chicago       | 1.00  |
| Charlie Smith     | Computer support      | GSECARS              | APS      | Univ. Chicago       | 0.33  |
| Barbara Lavina*   | Beamline scientist    | COMPRES              | APS      | Univ. Chicago       | 1.00  |
| Jinhui Xu         | Beamline scientist    | COMPRES              | APS      | Univ. Hawaii        | 1.00  |
| Dongzhou Zhang    | Beamline scientist    | COMPRES              | APS      | Univ. Hawaii        | 1.00  |
| Haiyan Chen       | Beamline scientist    | COMPRES              | APS      | Stony Brook         | 1.00  |
| Matt Whitaker     | Beamline scientist    | COMPRES              | NSLS-II  | Stony Brook         | 1.00  |
| William Huebsch   | Electronics engineer  | COMPRES              | NSLS-II  | Stony Brook         | 0.25  |
| Zhenxian Liu      | Beamline scientist    | COMPRES              | NSLS-II  | Univ. Ill. Chicago  | 1.00  |
| Bora Kalkan       | Beamline scientist    | COMPRES              | ALS      | UC Santa Cruz       | 1.00  |
| TBA               | Beamline scientist    | COMPRES              | ALS      | UC Santa Cruz       | 1.00  |
| Logan Leinbach    | Research technician   | COMPRES              | ASU      | Arizona State Univ. | 0.65  |
| Carl Agee         | President             | COMPRES              | UNM      | Univ. New Mexico    | 1.00  |
| Beth Ha           | Administrative        | COMPRES              | UNM      | Univ. New Mexico    | 0.50  |
| Gloria Statum     | Administrative        | COMPRES              | UNM      | Univ. New Mexico    | 0.50  |
| <b>TOTAL</b>      |                       |                      |          |                     | 29.73 |

**Table 2. Staff supported by GSECARS and COMPRES by award**

| <b>Award</b>   | <b>FTE</b> | <b>%</b> |
|----------------|------------|----------|
| <b>GSECARS</b> | 18.33      | 61.7%    |
| <b>COMPRES</b> | 11.40      | 38.3%    |

**Table 3. Staff supported by GSECARS and COMPRES by location**

| <b>Location</b> | <b>FTE</b> | <b>%</b> |
|-----------------|------------|----------|
| <b>APS</b>      | 22.83      | 76.8%    |
| <b>NSLS-II</b>  | 2.25       | 7.6%     |
| <b>ALS</b>      | 2.00       | 6.7%     |
| <b>ASU</b>      | 0.65       | 2.2%     |
| <b>UNM</b>      | 2.00       | 6.7%     |

**Table 4. Staff supported by GSECARS and COMPRES by employer**

| <b>Employer</b>            | <b>FTE</b> | <b>%</b> |
|----------------------------|------------|----------|
| <b>Univ. Chicago</b>       | 19.83      | 66.7%    |
| <b>Univ. Hawaii</b>        | 2.00       | 6.7%     |
| <b>Stony Brook</b>         | 2.25       | 7.6%     |
| <b>Univ. Ill. Chicago</b>  | 1.00       | 3.4%     |
| <b>UC Santa Cruz</b>       | 2.00       | 6.7%     |
| <b>Arizona State Univ.</b> | 0.65       | 2.2%     |
| <b>Univ. New Mexico</b>    | 2.00       | 6.7%     |

Figure 2. Brightness of sources for a number of current and future COMPRES and GSECARS beamlines. Current sources are plotted as solid lines, and future sources are dashed. The NSLS-II sources are blue, APS is black, and ALS is red.

