JOHNS HOPKINS IN HOWARD COUNTY

Johns Hopkins Facilities in Howard County

APL: Howard County’s largest private employer

With a budget of more than $1.4 billion and 6,327 in-county employees in the spring of 2017, the Johns Hopkins University Applied Physics Laboratory is Howard County’s largest private employer, and one of the nation’s largest university-affiliated research centers. APL’s work includes research on national security problems; development of new cybersecurity technologies; advances in robotics and machine learning; space exploration; and development of new medical technologies. The Lab is also actively engaged in efforts to strengthen STEM education in the County’s public schools.

Johns Hopkins in Howard County - FY 2017

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8,873</td>
<td>JH employees working in the County</td>
</tr>
<tr>
<td>6,618</td>
<td>County residents employed by JH</td>
</tr>
<tr>
<td>$658M</td>
<td>Wages and salaries paid by JH to County residents</td>
</tr>
<tr>
<td>652</td>
<td>County residents enrolled at JH</td>
</tr>
<tr>
<td>$3.6M</td>
<td>Financial aid to students residing in the County</td>
</tr>
<tr>
<td>$1.4B</td>
<td>Research and related spending by APL</td>
</tr>
<tr>
<td>$1.7M</td>
<td>Taxes and fees paid to local governments in the County</td>
</tr>
<tr>
<td>$102.5M</td>
<td>Paid to Howard County suppliers and contractors</td>
</tr>
<tr>
<td>402,492</td>
<td>Patient visits by County residents to JH health care providers</td>
</tr>
<tr>
<td>$3.9M</td>
<td>Financial assistance provided at cost by Howard County General Hospital to uninsured and underinsured patients</td>
</tr>
<tr>
<td>404</td>
<td>Participants in APL’s summer internship programs</td>
</tr>
</tbody>
</table>
## Educating County Residents

Number of County residents enrolled at JH, spring 2017
- JHU undergraduates: 652
- JHU graduate/professional: 572

Number of JH alumni living in Howard County: 9,928

Financial aid from University sources to students residing in Howard County, FY 2017: $3,590,514

## Delivering Health Care

Number of JH patient encounters involving County residents, FY 2017: 402,492
- Number of inpatient discharges of County residents from JHHS hospitals: 16,917
- Number of outpatient visits by County residents to JHHS hospitals: 97,726
- Number of emergency visits to JHHS hospitals by County residents: 44,270
- Number of patient visits to JHCP primary and specialty care centers located in Howard County: 151,645
- Number of County residents served by JH Clinical Practice Association: 85,812
- Number of County residents served by JH Home Care Group: 6,122

Number of participants in JHHC health plans living in Howard County, FY 2017: 20,548

## Johns Hopkins in the Community

Taxes and fees paid by JH to local government in Howard County, FY 2017: $1,664,035

Number of JH students serving internships at schools/institutions in the County, 2016-17: 49

Value of community benefits (including financial assistance, community health services, education of health professionals, etc.) provided by Howard County General Hospital, FY 2017: $21,303,129

Value of financial assistance provided at cost by Howard County General Hospital to uninsured and underinsured patients, FY 2017: $3,917,722

Hours worked by APL employees in school and community outreach programs, FY 2017: 17,505

Number of participants in APL’s summer internship programs, summer 2017: 404

## Examples of Innovative Howard County Companies with Ties to JH

- **Sensics, Inc.,** Columbia, develops and manufactures high-performance virtual reality products based on technology licensed from APL
- **TeamWorx Security,** Columbia, founded by a former APL employee, helps clients defend against asymmetric cyber threats
- **FRIS, LLC,** Highland, has developed multi-sensor platforms designed to meet the needs of autonomous vehicles, based on technology licensed from APL
- **Natsar Pharmaceuticals,** Ellicott City, is developing a new class of drugs, based on technology licensed from JH, that promises to inhibit the growth of several types of cancer
- **Enveil,** Fulton, is a data protection company founded in 2016 by a former APL employee

## Howard County General Hospital

Howard County General Hospital is the fast-growing County’s only acute-care hospital, with strengths in women’s and children’s health, emergency medicine, intensive care, surgery, psychiatry, stroke, cardiology and community health education. Howard County General is also the County’s second-largest private employer (2018). In 2018, Howard County General became the first community hospital to host a branch of the Johns Hopkins Armstrong Institute for Quality and Patient Safety, one of the nation’s leading centers of research and innovation aimed at improving the quality and safety of health care. Armstrong Institute at Howard County General will focus on translating the results of the Armstrong Institute’s work into practical improvements that can be implemented by community hospitals.