



2024-2025

# OPEN ACCESS REPORT



UNIVERSITY LIBRARIES  
VIRGINIA TECH.



# THE OPEN ACCESS (OA) REPORT

**PROVIDES INFORMATION** about the services provided by the Libraries in support of open access. The data reported is for fiscal year 2025 unless otherwise noted.

# OPEN KNOWLEDGE COMMITTEE

**OPEN KNOWLEDGE DESCRIBES** work at the intersection of open access, open education, and open data, three catalyzing movements within and across disciplines and professions that encourage the sharing of different types of knowledge products, open practices, and processes, whether journal articles, textbooks, or datasets.

“...the intersection of open access, open education, and open data...”

The Open Knowledge Committee (OKC) coordinates the University Libraries' participation in International Open Access Week. In October 2024, the OKC hosted OA Week activities that included presentations on the university's Open Access Policy and the Libraries' annual Open Access Forum, which included a panel session with Edward Lener, Dean Tyler Walters, Anita Walz, Corinne

Guimont, Brandie Pullen, and Dean Aimee Surprenant. In Spring 2025, Edward Lener, Dean Tyler Walters, Anita Walz, Dr. Laura Nesor, Corinne Guimont, Philip Young, and Dean Aimee Surprenant presented at the Connecting the Opens Forum. Other OKC-led programming for Open Education Week included VT Author Stories, an Open Access Policy Workshop, a session on Open Qualitative Data Analysis, and an Introduction to Open Textbooks. The library invited practitioners of open publishing, whether books, articles, or open educational resources, to attend and participate in these public programs.

The committee also reviewed several open access initiatives and advised the Collections Department on which opportunities to pursue.

# OA SUBVENTION FUND

**THE OA SUBVENTION FUND** is a funding source for Article Processing Charges (APCs) for articles accepted for publication in open-access journals. Virginia Tech authors are eligible for a maximum of \$1,500 per article and \$3,000 per author per year. In FY25, the OASF received 40 requests and awarded 121 unique authors a total of \$49,295 (average \$1,232.38 per

article) to subsidize the APCs for 29 open-access articles. The OASF closed July 1, 2025, due to the rising cost of APCs and the annual increase in demand for subsidization. University Libraries at Virginia Tech continues to provide OA APC discounts to authors through the Libraries' memberships and subscriptions.

“In FY25, the OASF received 40 requests and awarded 121 unique authors a total of \$49,295 (average \$1,232.38 per article) to subsidize the APCs for 29 open-access articles.”



Virginia Tech Authors Event  
Photo by Chase Parker

# OA SCHOLARSHIP REPOSITORY

**VTECHWORKS** is the open access repository for institutional scholarship that includes articles, pre- and post-prints, technical reports, open educational resources, and electronic theses and dissertations. The VTechWorks team archived 15,400 items this year, including 1,044 electronic theses and dissertations (ETDs) and

1,058 faculty publications from the Elements system. Bitstreams, or files, in the repository were accessed 2,553,761 times. The Collections Processing Team continues to digitize Virginia Tech publications and deposit associated files and metadata in VTechWorks.

# OA POLICY

**VIRGINIA TECH UPDATED ITS INTELLECTUAL PROPERTY POLICY 13000** in 2021 to enable deposits of final peer-reviewed manuscript versions of scholarly articles in the university's open-access repository. In FY25, 451 accepted versions were

deposited in VTechWorks. Philip Young, repository manager, delivered 14 Professional Development Network (PDN) sessions on the topic, with a total of 53 attendees.

# PUBLISHER MEMBERSHIP DISCOUNTS

**THROUGH SUBSCRIPTIONS,** site licenses, institutional memberships, and VIVA Read & Publish Agreements (consortium-negotiated transformative agreements), Virginia Tech authors are eligible for APC discounts for open access articles published with 16 journal publishers. The discounts range from 10 percent to a full waiver on all charges. The most recent additions to the list include the American Chemical Society, Royal Society of Chemistry, and PLOS. [The Open Access Subvention Fund Research Guide](#) tracks the current discounts available.

## PARTICIPATING PUBLISHERS INCLUDE:

1. Association of Computing Machinery (ACM)
2. American Chemical Society (ACS)
3. BioMed Central
4. Cambridge University Press
5. Cogitatio Press
6. Electrochemical Society

7. Ergo
8. Institute of Physics (IOP)
9. International Water Association
10. MDPI
11. PeerJ, PeerJ CompSci
12. PLOS
13. Proceedings of the National Academy of Sciences
14. Rockefeller University Press journals
15. Royal Society
16. Royal Society of Chemistry
17. Springer
18. SpringerOpen
19. Wiley

**LIBRARY EMPLOYEES PARTICIPATE** in VIVA committees on open education, open access, resource sharing, and cooperative collection development, contributing to a community that works to reduce access costs for instructors, students, authors, readers, and member institutions.

# VIRGINIA TECH PUBLISHING & PRESS

## UNIVERSITY LIBRARIES CELEBRATED

the launch of Virginia Tech Publishing & Press in FY25. Virginia Tech Publishing & Press (VTP&P) worked to expand into a formal university press by refining workflows and processes, establishing an advisory board, and applying to join the Association of University Presses. The application went through three reviews with the association's standards committee, board of directors, and membership at large, and VTP&P was accepted as an affiliate member in May 2025. The archived books and journals published by VTP&P are [available in VTechWorks](#).

## JOURNALS

IN FY25, Virginia Tech Publishing & Press maintained 12 [active OA journals](#) and onboarded two new journals.

## DIGITAL PUBLICATIONS

### VIRGINIA TECH PUBLISHING & PRESS

pushes the boundaries of academic publishing through new forms and formats, including [Digital Humanities projects](#) from faculty, staff, and students, which are freely available online. In FY25, VTP&P supported more than twenty digital projects through consultations, publication, and grant involvement, and shifted to focus on expanding digital publications to include peer-reviewed digital scholarship projects. The press published one fully peer-reviewed and edited project and completed three multimedia projects that are available through major outlets, including YouTube, Apple, and Spotify.

## BOOKS

IN FY25, VIRGINIA TECH PUBLISHING & PRESS published seven books (5 faculty-led and two student publications). Books published with

support from the Library are also [archived in VTechWorks](#). In FY25, VTP&P increased the number of titles published per year and focused on peer-reviewed scholarship. Since the launch of Virginia Tech Publishing in 2017, the program has published 35 open access books and currently has 10 more in process.

## GRANTS

VIRGINIA TECH PUBLISHING participated in 6 grants:

- National Endowment for the Humanities, Digital Projects for the Public Grant. Experiencing Civil War History Through Augmented Reality: Soldiers, Civilians, and the Environment at Pamplin Historical Park (2023-2025) with Paul Quigley (PI) and other colleagues in the Center for Human Computer Interaction \$100,000.
- National Endowment for the Humanities, Humanities Collections and Reference Resources Planning Grant. Planning grant for Dangerous Harbor: Finding Escaped Unfree Laborers in the 17th Century Chesapeake (2023-2025) with Jessica Taylor and other colleagues in the library \$100,000.

- National Endowment for the Humanities, Fellowships Open Book Program. Open Access Edition of Place, Memory, Poetry, and the James A. Emanuel's Papers at the Library of Congress by Tyechia Thompson (2024-2025), VTP as PI to create Open Access edition of project \$5,500.

- Library Collaboration Grant. Teaching Historical Racial Traumas (2024-2025) with Marcus Johnson \$10,000.

- Library Collaboration Grant. Things They Still Carry: Oral Histories with Virginia Tech Alumni who Served in the Vietnam War (2024-2025) with Jim Dubinsky \$10,000.

- Library Collaboration Grant. Place, Memory, Poetry, and the James A. Emanuel's Papers at the Library of Congress (2025) with Tyechia Thompson \$5,000.

(Source: VTP&P's annual report, statistics provided for the number of books and journals published in FY25)

# OPEN EDUCATIONAL RESOURCES

## OPEN EDUCATIONAL RESOURCES

OPEN EDUCATIONAL RESOURCES are openly licensed and publicly accessible instructional materials created, adopted, or adapted by instructors for classroom use and public sharing. The Library supports faculty and staff learning, access/resource identification, adaptation/curation, and pre-peer review authoring. University Libraries-supported open textbooks are [archived in VTech Works](#) and in the University Libraries' [OER Grantees Showcase](#). All program outputs are freely and publicly available except for print-on-demand versions, which are available at cost, test banks, which are access-restricted to authenticated faculty, and works in pre-publication in-class field testing. All works are released under licenses that permit adaptation and redistribution. Faculty worldwide are adopting OER created by Virginia Tech.

The Open Education Initiative (OEI) at Virginia Tech began in 2014 with its first open educational resource (OER), the open textbook *Fundamentals of Business*, published in 2016 ([VTNews](#)).

## THE OPEN EDUCATION INITIATIVE TEAM:

- Encourages faculty awareness and adoption of open educational resources (OER), provides coaching and support for adoption, adaptation, and creation of a wide variety of OER and open source software, and collaborates on rights negotiation and re-publication support for rights-reversion of out-of-print materials.
- In 2016, the initiative launched an OER grant program aimed at funding adaptation and authoring efforts. Since then, the OEI has provided funding and technical support to over 46 open educational resources, which are openly licensed and freely available to the public. These include open textbooks, problem sets and test banks, class slides, presentations, virtual reality animals, clinical instruction videos, an interactive chemistry calculator, primary source audio and video collections, collected student works, and republication of in-demand out-of-print works. ([Selection of completed projects.](#))
- In FY25, OEI had in-development projects in the fields of: architecture,

communication, human development, psychology, management, aerospace and ocean engineering, biosystems engineering, civil engineering, industrial systems engineering, science & technology studies, engineering education, and mechanical engineering.

- In 2019, the OEI began providing alternative support options to student homework software rentals. These efforts have included two test bank sprints, one AI-assisted test bank development project, and [three Canvas-integrated homework software pilots](#) (WebWork, Pressbooks Results, and Strength of Materials homework system). SaaS and hosting fees for the first two are currently paid by the library. All three pilots are intended to unbundle faculty text and homework access code decision-making and student purchase processes, expand faculty choice and control over regarding homework/assessment systems and curricular materials in general, reduce (or remove) costs for students, and create opportunities for subject matter experts to collaborate in creation, review, and sharing of assessment

strategies, tools, and content. Ancillary teaching resources have also enabled adoption at other institutions.

- In FY25, the OEI participated in the AAC&U Institute on Open Educational Resources. This included the development of a multi-disciplinary working group of four Virginia Tech faculty. Achievements include 1) Addition of language to Virginia Tech Tenure & Promotion Guidelines clarifying the inclusion of OER/open textbook (all faculty except research faculty); 2) Development of an OER needs/interest survey for faculty; 3) An improved relationship with the Registrar's Office regarding their work toward complying with Virginia § 23.1-1308 (F); and 4) Development of an ongoing working / advisory group.
- The OEI participated as the local survey administrator of the Virginia Course Materials Survey (VIVA, [2021 & 2025](#))
- Worked to identify, develop, and implement accessibility practices and platforms that contribute toward WCAG 2.1 AA compliance. In FY25, this involved creating a LaTeX-to-

HTML/EPUB workflow for book-length open educational resources. As OERs are intended to be reusable and customizable, working from the LaTeX source file level is a more efficient and sustainable strategy than adding a remediation layer to a PDF.

- OEI production services, and program and production staff were reassigned to Virginia Tech Publishing in FY25. Virginia Tech Publishing now oversees peer review, editorial, design, and production for open textbooks. The OEI focuses on outreach, education, acquisition, coaching, content development, post-production marketing, assessment, and emerging project approaches.

The number of Virginia Tech students served increases annually. From 2014 to July 2025, this program saved Virginia Tech students ~\$4.4 million in course material costs.

## GRANTS

**THE OPEN EDUCATION INITIATIVE** participated in 6 external grants in FY2025. As most are multi-year grants, new funding in FY25 is preceded with an (\*) and included in totals below.

- VIVA (Virginia's Academic Library Consortium). Strength of Materials with Engineering Education and Mechanical Engineering: \$37,312.00. Grohs/Lord/Walz (07-01-2023 - 06-30-2025). (Published August 2024): [Book](#) and [problem sets](#)
- CETL Teaching Grant: Extending the series: Medical education specific materials with the Virginia Tech Carilion School of Medicine \$2,000. Cleveland/LeClair/Binks (01-01-2024-10-15-2024). Microbiology, Pharmacology, and Immunology for Pre-Clinical Students (published April 2025). <https://hdl.handle.net/10919/118480>
- (\*) University Libraries Collaborative Research Grant with Pamplin College of Business Department

of Management \$10,000. Anderson/Walz (May 2024-April 2025) Strategic Management and Case Analysis (published August 2025). <https://hdl.handle.net/10919/136127> [Project video](#).

- (\*) VIVA (Virginia's Academic Library Consortium) Introduction to International Business with Pamplin College of Business Department of Management \$28,288. Raschke/Poff. (07-01-2024 - 06-15-2026) In development.
- VIVA (Virginia's Academic Library Consortium) Updating the Fundamentals of Business Test Bank. \$7,448.00. Poff/Walz (07-01-2023 - 06-15-2026). In copyediting.
- VIVA (Virginia's Academic Library Consortium) Tools and Resources to Facilitate Adoption of Engineering Mechanics with Engineering Education, ICAT, and Mechanical Engineering. OER \$30,000. Grohs/Lord/Kirk/Walz with (Awarded 06/2025. 07-01-2025 - 06-30-2026). Project launched.

## IMPACTS IN FY25

- Open educational resources were used as primary course materials by over 13,500 students enrolled in 71 courses at Virginia Tech. This resulted in FY25 student savings of over \$ 1.188 million.
- OEI test banks for OER textbooks were requested by other institutions 105 times.
- OEI received new grant awards totaling \$38,288.

FY25: To support faculty and students, we collaborated with Virginia Tech Publishing in publishing and freely sharing four new Open Educational Resources:

L. H. Newcomb, J. David McCracken, J. Robert Warmbrod, and M. Susie Whittington (2004, 2025). *Methods of Teaching Agriculture*, third edition. Blacksburg. <https://doi.org/10.21061/methodsofteachingagriculture>. Licensed with [CC BY NC 4.0](#).

Neser, Laura (2025). *Introduction to Earth Science*, Second Edition. Blacksburg: Virginia Tech Department of

Geosciences <https://hdl.handle.net/10919/124132>. Licensed with [CC BY-NC-SA 4.0](#).

Cleveland, Jennifer L., Binks, Andrew P., and LeClair, Renée J. (2025). Microbiology, Pharmacology, and Immunology for Pre-Clinical Students. Roanoke: Virginia Tech Carilion School of Medicine. <https://hdl.handle.net/10919/118480>. Licensed with [CC BY 4.0](#).

Russell, John Morgan (2025). Significant Statistics: An Introduction to Statistics. Blacksburg: Virginia Tech Department of Statistics. <https://doi.org/10.21061/significantstatistics>. Licensed with [CC BY-SA 4.0](#).

# LEARNING OBJECT REPOSITORY

**ODYSSEY IS AN OPEN LEARNING,** objects repository for Virginia Tech-created instructional videos, tutorials, handouts, and more. Of the 96 items currently in the main repository, two new items were added in FY 25, and 12 were updated for accessibility. Odyssey had 6,300 pageviews in FY 25, with 2,800 unique users. Odyssey's videos are housed on [YouTube](#) and received

127,069 views in FY25, while the channel added 161 subscribers. In the upcoming year, the Teaching & Learning Engagement team will add new content to Odyssey, maintain existing items in the repository, and ensure all content remains accessible in accordance with federal guidelines.

“  
In FY25, the OASF received 40 requests and awarded 121 unique authors a total of \$49,295 (average \$1,232.38 per article) to subsidize the APCs for 29 open-access articles.

# OPEN INTEGRATION IN RESEARCH INFORMATION MANAGEMENT SYSTEMS

**THE UNIVERSITY LIBRARIES** partner closely with Faculty Affairs and Analytics and Institutional Effectiveness in the Office of the Executive Vice President and Provost, and connect with the Office of Research and Innovation and with key system stakeholders across the university: college administrators, institutes, centers, faculty, and others. We support ongoing management, continuous improvement, alignment with policies, including the Open Access provision with the university's Intellectual Property Policy, support integrations between system components, and provide training and assistance in the use of the research information management system as a whole, with a particular focus on the Elements faculty activity data system. The Libraries

manage and provide training and profile curation services for Virginia Tech Experts, the public profiles system that draws from Elements data, to increase visibility of Virginia researchers and scholarship, including how to legally deposit the author's accepted manuscript (AAM) of their scholarly articles to VTechWorks via Elements and display these, other open access works, and openly shared data publicly on their Experts profile. Through these systems and related training, we integrate open, persistent, interoperable IDs, such as ORCID researcher IDs, collaborating with university offices, college administrators, and faculty to increase uptake.

# OPEN RESEARCH COLLABORATION AND ENGAGEMENT

**THE UNIVERSITY LIBRARIES** embeds awareness, options, and support for open research and scholarship practices into consultations, workshop materials, and the general ethos of our services. For example, subject librarians (liaisons) and services such as data services, evidence synthesis services, publishing, research impact and intelligence, and undergraduate research initiatives, support educators, researchers, and authors at all levels to create and use open access and openly licensed material, including making their research results (publications and data) available open access or public access to the extent possible (within security and privacy considerations and policies). In our own practice, when we create workshops, course materials, Canvas modules, and other resources, we generally apply an open license and share them broadly for reuse.

We facilitate and support Virginia Tech affiliates in adopting open research and scholarship practices. We manage institutional memberships or licenses for tools like the Open Science Framework (OSF) to transparently document and share research materials and data, thereby increasing access, promoting reproducibility, and supporting collaborative research teams. We collaborate to host training to support the use of these tools and open research, scholarship, and education practices, such as: registration of research protocols, direct support for open educational resource development projects, team science resources and best practices, and workshops on these and related topics and tools tailored to specific courses, colleges, disciplines, or transdisciplinary areas and teams. The Libraries are institutional members of and contribute to initiatives, projects, and leadership in professional

# OPEN DATA

communities that develop strategies and resources for open research and scholarship across disciplines, such as the Center for Open Science, SPARC, and Lyrisis.

The Libraries lead or partner on grants and research teams to support or develop open and collaborative research and scholarship practices, including the following, in addition to others listed in this report:

- Strengthening Virginia Food System Networks for Resilience via Regional In-Person Convenings funded by Open Research Community Accelerator (ORCA) Multiplier, USD 14,998 (Active: 06/02/2025 - 12/31/2025)

- Preserving Open Access Datasets and Software for Sustainable Computational Reproducibility, Old Dominion University Research Foundation, Other, USD 75,000 (Active: 08/01/2024 - 07/31/2027)

**UNIVERSITY LIBRARIES** is committed to providing broad access to Virginia Tech research data and code and meeting funder and journal requirements around data sharing. Funding agencies are currently implementing new public access policies in response to the [OSTP memo “Ensuring Free, Immediate, and Equitable Access to Federally Funded Research”](#).

Highlights of how the University Libraries provide support for open data:

- Administering the [Virginia Tech Data Repository](#) - The purpose of this repository is to highlight, preserve, and provide access to research products (e.g., datasets) of the Virginia Tech community, and in doing so, help to disseminate and make usable the intellectual output of the university in its land-grant mission.
  - 60 new datasets were published in the Virginia Tech Data Repository in FY25,

not including versioning of existing datasets

- Datasets published from CALS, COE, CLAHS, CNRE, COS, and Lib
- In addition, 220 items from the Dangerous Harbor project were published in the Virginia Tech Data Repository
- 152K dataset downloads and 219K pageviews through the Virginia Tech Data Repository
  - [Sharing data to fuel discovery](#)
  - Open-source software is also shared through the Virginia Tech Data Repository
- Participating in crowdsourced Covenants Research Project - \$150,000 **awarded** by National Historical Publications and Records Commission, January 2024; PI LaDale Winling (Virginia Tech History)
- Supervising an undergraduate on covenants mapping and

# OA RESOURCES/ COLLECTIONS

metadata scheme creation, public access to [restrictive covenants on web map](#) (\$8,400)

- Participating in the Center for Community Empowering Pandemic Prediction and Prevention from Atoms to (COMPASS) - **awarded** by NSF, August 2024 - \$18M; PI TM Murali (Virginia Tech Computer Science)
  - Advising on center data management and archiving (\$1,100)
- Providing curation services to help Virginia Tech researchers make their data FAIR, through such means as:

- Enhancing the metadata surrounding research data
- Converting research data to open and widely-used formats where appropriate
- Participating in the Data Curation Network since 2020 - [The Data Curation Network \(DCN\)](#) is a membership organization of institutional and non-profit data repositories whose vision is to advance open research by making data more ethical, reusable, and understandable
- Institutional members with the [Qualitative Data Repository](#) and the [Inter-university Consortium for Political and Social Research](#).

## THE COLLECTIONS DEPARTMENT

reviews any opportunities to acquire open access resources and collections on an annual basis. The Directory of Open Access Books, JSTOR Path to Open, SCOAP3 Books Collection, and the University of Michigan Press Fund to Mission Open

Access Monograph Model, along with two Knowledge Unlatched Focus Collections - Economics: Sustainability and Circularity & Regional Studies: Conflict, War, and Peace, were among those added over the past year.

# OPPORTUNITIES

**WORKING TOGETHER**, Libraries can increase open access to scholarship and make open publishing more affordable. The following initiatives offer collaboration opportunities for Virginia Tech:

- [HELIOS](#)
- [Invest in Open Infrastructure](#)
- [US Repository Network](#)
- [AAC&U Open Education Resources \(OER\) Institute](#)

Library faculty are also actively involved in forming partnerships and seeking external grants to supplement existing funding. Below are reported totals for direct funding received for OA projects and for projects led by faculty in other departments that involve library collaborators supporting OA services.

# EXPENDITURES

## OPEN ACCESS-RELATED EXPENDITURES

are grouped into categories below. *OA Collections & Memberships* include the annual cost of memberships with, for example, ORCID and the Open Education Network, as well as OA collections such as Punctum Books, Knowledge Unlatched, and Cogitatio Press. *Software Licenses* include annual fees for software services, including hosted repositories and publishing systems.

Grants provide the total in awards made by Virginia Tech Libraries to authors to publish OER and OA journal articles. Provided for *FTE* is an estimated number of employees responsible for open access.

<b>OA COLLECTIONS &amp; MEMBERSHIP:</b>	<b>\$164,330</b> (32 active collections and memberships)
<b>SOFTWARE LICENSES:</b>	<b>\$173,177</b>
<b>GRANT AWARDS (FROM OEI, OASF, VTP&amp;P):</b>	<b>\$97,323</b>
<b>TOTAL: (estimated annual OA expenditures)</b>	<b>\$434,830</b>
<b>GRANT FUNDS RECEIVED:</b>	<b>\$158,786</b> (8 grants)
<b>TOTAL: (direct funds to UL)</b>	<b>\$158,786</b>
<b>TOTAL: (cost avoidance for students)</b>	<b>\$1,188,965</b> (textbook costs)
<b>FTE:</b>	<b>25-30</b>

# RESOURCES

**LEWIS, DAVID W.** et al. Funding community controlled open infrastructure for scholarly communication: The 2.5% commitment initiative. **College & Research Libraries News**, [S.l.], v. 79, n. 3, p. 133, Feb. 2018. ISSN 2150-6698. Available at: <<https://crln.acrl.org/index.php/crlnews/article/view/16902/18557>>. Date accessed: 27 Oct. 2022. Doi: <https://doi.org/10.5860/crln.79.3.133>.

- VT Libraries calculated OA costs as a participant in this initiative several years ago. However, the authors of the current report emphasize roles and responsibilities, investment categories, and cost estimates rather than precise dollar amounts. This mention is to recognize prior work by David Lewis and the library community to assess the current state of library spending in support of open access.

Open@VT blog, <https://openvt.lib.vt.edu/>

- Launched in 2013, the Open@VT blog remains active with posts from library employees working in open-access service areas, featuring information

about events, research, resources, publications, and opportunities for engagement.

Opening Knowledge booklet, <https://vtechworks.lib.vt.edu/handle/10919/87052.4> and available in print in Newman Library (2nd floor, Opening Knowledge Collection)

- The Open Knowledge booklet, produced by the Open Knowledge Committee, provides, in printable format, important information about open access, open education, and open data, and the open knowledge services offered by the University Libraries.

Access Matters, <https://lib.vt.edu/access-matters.html>

- The Access Matters online page describes the University Libraries' commitment to open access and provides links to relevant information about open access services, subject guides, collections, and forwarded memorandums on public access to the results of federally funded research.

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