



THE UNIVERSITY OF ARIZONA

Communications & Cyber Technologies

Our Services

Supporting faculty and staff in their use of technology as they pursue research, instruction, and outreach objectives.

CONTENTS

[Development](#)

[Design](#)

[Multimedia](#)

[Information Technology](#)

[Data Science](#)

Development

Engineering interactive web, mobile and GIS applications.

WEB DEVELOPMENT

We can build new websites, update/redesign old sites, and help to maintain them.

New Website Development: flat rate, per estimate

Design and develop departmental and grant-based websites using content management systems (such as Drupal), as well as GIS and web-based mapping applications, mobile applications, and online curriculum.

Website Conversion: flat rate, per estimate

Convert an existing static-HTML, Joomla, or Wordpress site (etc) to Drupal.

Website Content Migration: flat rate or hourly at \$45/hour, per estimate

Migrate content from an existing site to a newer Drupal-based website.

Website Maintenance: flat rate, retainer fee, or hourly at \$45/hour, per estimate

Re-develop existing sites, add new sections or functionality, and perform maintenance and changes when needed.

Website Application Scanning: free

Scan website for security threats and accessibility compliance checking. Mitigate issues \$45/hour.

Drupal Core Updates: free

When Drupal releases a new minor version, we upgrade the Drupal core, then ask you to run the site's upgrade.php script.

Drupal Site Module Updates - Per Request: \$45/hour

Upgrade test, and debug, in a controlled development environment before pushing the changes to your production site.

Drupal Site Module Updates - Monthly Subscription: \$75/month

Using the procedure above, our staff will monitor your site and upgrade modules as needed, on a monthly basis.

MOBILE DEVELOPMENT

Mobile apps and mobile-first website development.

Native Mobile Applications: flat-rate, per estimate

Mobile applications that are specifically targeted for iOS or Android devices.

Mobile Web Applications: flat rate, per estimate

Mobile Progressive Web Applications (PWAs) that are built using HTML, CSS and JavaScript that can be run from the browser and are platform independent.

Mobile Mapping Applications: flat-rate, per estimate

Develop in-field mapping applications that are targeted for tablets and mobile phones. These applications can provide users the ability to perform in-field edits and save those edits back to a mobile-deployed dataset or enterprise database.

GIS INFRASTRUCTURE DESIGN & DEVELOPMENT

Develop mapping applications using a variety of mapping APIs and modern web frameworks.

GIS Application Servers: flat-rate, per estimate

Design and implement GIS Application Servers such as ArcGIS Server or GeoServer that serve GIS data to web, mobile, and desktop clients.

Spatial Database Management Systems: flat-rate, per estimate

Design and implement Spatial Database Management Systems such as ArcSDE or PostGIS that store and retrieve spatial data in a multi-user environment.

Collaborate Development: flat-rate, per estimate

Co-develop projects with other groups on campus including the ART Lab, the AZ Remote Sensing Center and the UA-GIS Center for Excellence.

TYPICAL APPS, SITES & AUDIENCES

Here is a list of sites and apps we have experience building, but we are always ready to take on new and unique projects

- Citizen Science/Peer-Driven Sites
- Conferences and Events
- Department Sites
- Digital Collections
- Outreach Sites

- Research Lab Sites
- Reservation/Sign Up Sites
- Mapping Applications
- Mobile Web Applications
- UA Quickstart Sites

COMMON FEATURES

Some popular features many of our clients request.

- Manage Multiple Users/Editors – Various Permissions and Privileges

- UA WebAuth or 3rd Party Authentication

- Publication Tools – Workflow Management

- Calendar Events

- Faceted Searching

- Blogs

- Forums

- File Sharing – UA Box Integration

- Web Forms and Surveys

- Reservation/Checkout Systems

- Credit Card Processing

- Image Galleries, Rotating Slideshows

- Featured Stories or Events

- Mobile-Responsive Design

- Mapping

- Charting and Graphs

- Statistical Data Analysis

- Twitter Integration

- RSS Feed Dissemination

- Mass Emailing

- Data Harvesting from OAI, DSpace, external CMS's

- Data Import

- Data Export

- APIs

- Google Analytics / Search Engine Optimization

- Progressive Web Apps with Offline Capabilities

- Cross-Browser, Cross-Device Testing

- Touch Screen Optimizations

Design

Creating visual and interactive solutions for pixel and print.

UX/UI INTERACTIVE

Designing great experiences through smart interfaces that engage audiences.

New Website or App: flat rate, per estimate

Our UX/UI design team will sit down with you to fully understand your audience, goals and objectives. Whether you need a fully custom app, site or a strict UA brand site, we will design the right interface to engage your audience with your content. Oh, and smart SEO will help new users find you.

Website or App Redesign: flat rate, per estimate

Our UX/UI design team will give your existing site or app a fresh look. Updating may mean converting a desktop focused design to a responsive design. So your site or app will look and function well on large, medium and small screens and tailored for touch screens of any size.

EMAIL MARKETING

Reach your audience at their inbox and connect them to your other places online.

Campaign Design: flat rate, per estimate

Utilizing Mailchimp, or other preferred platform, our designers will build out custom campaign templates that empower you to promote your project, department, or organization. We will then train you on these tools so that you have full control over your promotional campaigns.

GRAPHICS

Impactful graphics help tell a great story.

Logos: flat-rate, per estimate

We design creative, professional logos using graphic elements of your work, purpose, and vision for your department or organization.

Infographics: flat-rate, per estimate

Visual storytelling is a powerful means to communicate a complex idea that can universally be understood. Graphics blur boundaries and are effective ways to express

ideas to multilingual audiences.

Iconography: flat-rate, per estimate

Icons are an effective way to represent a concept, action, or subject. It's important that a collection of icons feel related and clearly communicate their intended purpose. Our designers will work with you to conceptualize, draw and execute these smart symbols.

Scientific Visualization: flat-rate, per estimate

Our data science team can work with you to develop exploratory, publication quality, and interactive data visualizations that will help you understand and communicate your research.

PRINT & DESKTOP PUBLICATION

Print is not dead. We're here to provide tactile experiences for your audience when necessary.

Desktop Publication, Journal Articles, and Reports: flat-rate, per estimate

Need to create a newsletter, magazine, or annual report? Our graphic design team will collect your photos, charts, and logos and arrange them within your document to give it a professional look and feel.

Marketing Material: flat-rate, per estimate

Our design team will create engaging marketing material that's unique to your work but incorporates elements of the University of Arizona Brand. Work includes brochures, pamphlets, flyers, posters and recruitment material.

Extension Publications: free

Our design team will design your peer-reviewed Extension Publication, add the Extension banner and contact info, and assign it an "AZ Number". We will ensure it complies with requirements for accessibility. We'll then upload it to the Online Extension Publication Database (<http://extension.arizona.edu/pubs>) and the Institutional Repository at the University of Arizona Library (<http://dlist.sir.arizona.edu>).

Multimedia

Video production and classroom support for targeted audiences.

VIDEO PRODUCTION

Our talented team of producers offer a full range of video production services.

High Impact Campaigns: flat rate, per estimate

We will work with you to determine your goal or impact and understand your appropriate audience segment. We'll then research your audience and determine the best product(s) to reach them effectively.

Documentary for television

Local showings and events

Short clips for sharing on social media

Speaking engagements

Supporting social media content

K-12 or higher education curriculum

Innovative online web experiences

Impact assessment

Targeted Campaigns: flat rate, per estimate

Our producers will work with you to determine your video needs then develop and produce your tailored video in the most useful format available.

CLASSROOM TECHNOLOGY SUPPORT

Distance-learning and conferencing options as well as set up.

In-Room Video Conferencing: free

We have several rooms of various sizes available with technology that creates collaborative environments between universities, conferences, distance classes, and defenses.

Web/Online Conferencing: free

We currently have a license for an 8 seat Cisco WebEx conference. In addition, we can obtain limited time licenses for larger conferences, short courses and events.

Panopto Software and Support: free

Panopto is a software platform that provides lecture recording, screencasting, video streaming, and video content management software, which is often used in E-learning environments.

Collaborate Software and Support: free

Formerly Elluminate, the current version offers many improvements, chiefly greatly improved audio conferencing capabilities. This application has not gained widespread popularity among users due to a less than user friendly interface and limitations with

early versions. However, it has proven highly reliable and has the capability of much larger webcasts than any other no (or low) cost option.

Information Technology

Providing cyber infrastructure services and solutions for physical and virtual servers for email, web, data, and more.

WEB HOSTING

We offer a variety of web and application hosting services to fit your needs.

Static-HTML Website Hosting: free

Sites developed in Dreamweaver or other HTML development software that do not require a database.

Database-backed Website Hosting: \$200/year

This includes Drupal, Wordpress, custom PHP websites, etc.

VIRTUAL SERVER HOSTING

Need more computing power or file space on dedicated resources? We can help.

Dedicated Virtual Server: \$1000/year

Your own Linux or Windows server allows you to install any web or database software (which may not be available in the College's shared hosting environment). Your application(s) will be hosted separately from the rest of the College's web applications, providing greater performance, dedicated RAM and additional disk space. The virtual server is placed on redundant computing hardware, which keeps your application responsive during a network, storage, or CPU failure. You will get full administrative access to the server and a suite of web-based monitoring tools. This is an alternative to our shared hosting environment and the \$200/year hosting fee for database-backed websites.

OFF CAMPUS NETWORKING

Working off campus just got easier.

Bandwidth Planning: free

Our dedicated IT team can work with campus UITS and local telco providers to improve bandwidth to your remote office. We are familiar with the latest in broadband and telephony technologies offered across the state as well as various funding models which may save your unit money.

CLOUD COMPUTING RESOURCES

Utilizing the power of the cloud.

Cloud Computing Strategies: flat rate, per estimate

Our IT team is continually using and keeping up with the latest support from Amazon Web Services, CyVerse, IBM, and other cloud providers that empower you to maximize the cloud.

High Performance Computing: flat rate, per estimate

Does your research exceed local computing resources? Our Data Science team can help you select an appropriate HPC, such as UA, NCSA, or XSEDE resources and provide custom support on HPC utilization.

Data Science

Analysis

Statistical Analysis: flat rate, per estimate

Our skills include a range of statistical techniques, from exploratory data analysis to hierarchical Bayesian modeling to machine learning.

Analysis Pipelines: flat rate, per estimate

Do you have a lot of data that you want to analyze in a consistent, reproducible, and scalable pipeline? We have expertise in building custom, automated workflows for data and algorithms.

Simulation Modeling: flat rate, per estimate

Want to simulate crop yield or other ecosystem processes? Generate meaningful hypotheses, predictions, or insights? We provide support for model selection, implementation, and interpretation.

Visualization and Interactive Websites: flat rate, per estimate

Visualizations are a cornerstone of scientific data; we will help with everything from publication-ready graphics to interactive websites using frameworks including R Shiny or Python libraries.

Data Management

Data Curation: flat rate, per estimate

We have extensive experience with improving existing databases and extracting results and metadata from publications. From writing a data management plan to publishing data to developing custom databases.

Data Synthesis: flat rate, per estimate

There has never been so much data available. We are familiar with public data repositories and work with the UA Library and other collaborators to find, understand, and analyze data. We have expertise with combining and harmonizing existing datasets to produce systematic reviews, quantitative hypotheses, and novel insights.

Support for Open Science and Best Practices in Data and Computing: flat rate, per estimate

Do you wish your data was easier to use and share? Are you starting a new project or collaboration? Do you need help developing or implementing a data management plan? We will help you understand and adopt best practices for data management, including data documentation, reproducible analyses, and open data.

Training

Workshops: flat rate, per estimate

Our data science team runs workshops tailored to specific needs and research problems. In addition to a monthly workshop series, we are available to teach existing or custom workshops for any research team or department. [Learn more.](#)

Data Science Incubator: flat rate, per estimate

The Data Science Incubator is an ongoing opportunity for researchers to work with our team to develop skills and capacity required to use new data resources and computing methods. The incubator requests proposals for technical support for small projects to work on focused, collaborative projects. [Learn more.](#)

Office Hours

Our Data team has office hours every Tuesday morning from 8-10 AM. This is an opportunity for researchers to ask questions and get help on data science solutions for their research. Or schedule 1:1 meetings with team members to discuss your needs. [Learn more.](#)