

**Basque**  
**BioDesign**  
**Center**  
Biodiseño & Tecnología

**BILME**

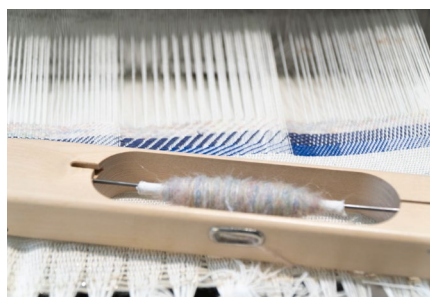
Textile Research Residency  
BASQUE BIODESIGN CENTER

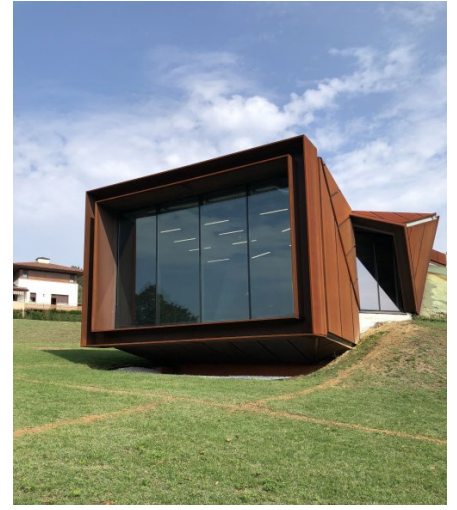
CALL FOR APPLICATIONS

**BIZIRIK**  
**Biodesign**  
**Research Residency**

**WELCOME TO THE BASQUE BIODESIGN CENTER, WE ARE THE CREATIVE PROJECTS DEVELOPMENT CENTER, RECOVERING AND REGENERATING LOCAL MATERIALS IN DISUSE, PROMOTING THE CREATION OF INTERDISCIPLINARY SYNERGIES, DEVELOPING TALENT, PARTICIPATORY MANAGEMENT AND THE RELATIONSHIP WITH THE LOCAL.**

BASQUE BIODESIGN CENTER LAUNCHES A TWO-MONTH TEXTILE RESEARCH RESIDENCY PROGRAM FOR EMERGING CREATORS AT BDC CENTER IN GUEÑES. TEXTILE ART RESIDENCES ARE IMMERSION PROGRAMS IN WHICH ARTISTS, DESIGNERS AND TEXTILE CREATORS ARE INVITED TO WORK FOR A SET PERIOD IN A NEW ENVIRONMENT, AWAY FROM THEIR USUAL WORK SPACE. THESE RESIDENCES ALLOW PARTICIPANTS TO FOCUS ON THEIR TEXTILE-RELATED ART PRACTICE IN A SPECIFIC CONTEXT, OFTEN WITH ACCESS TO LOCAL RESOURCES, WORKSHOPS, TOOLS, TECHNIQUES AND COMMUNITIES.



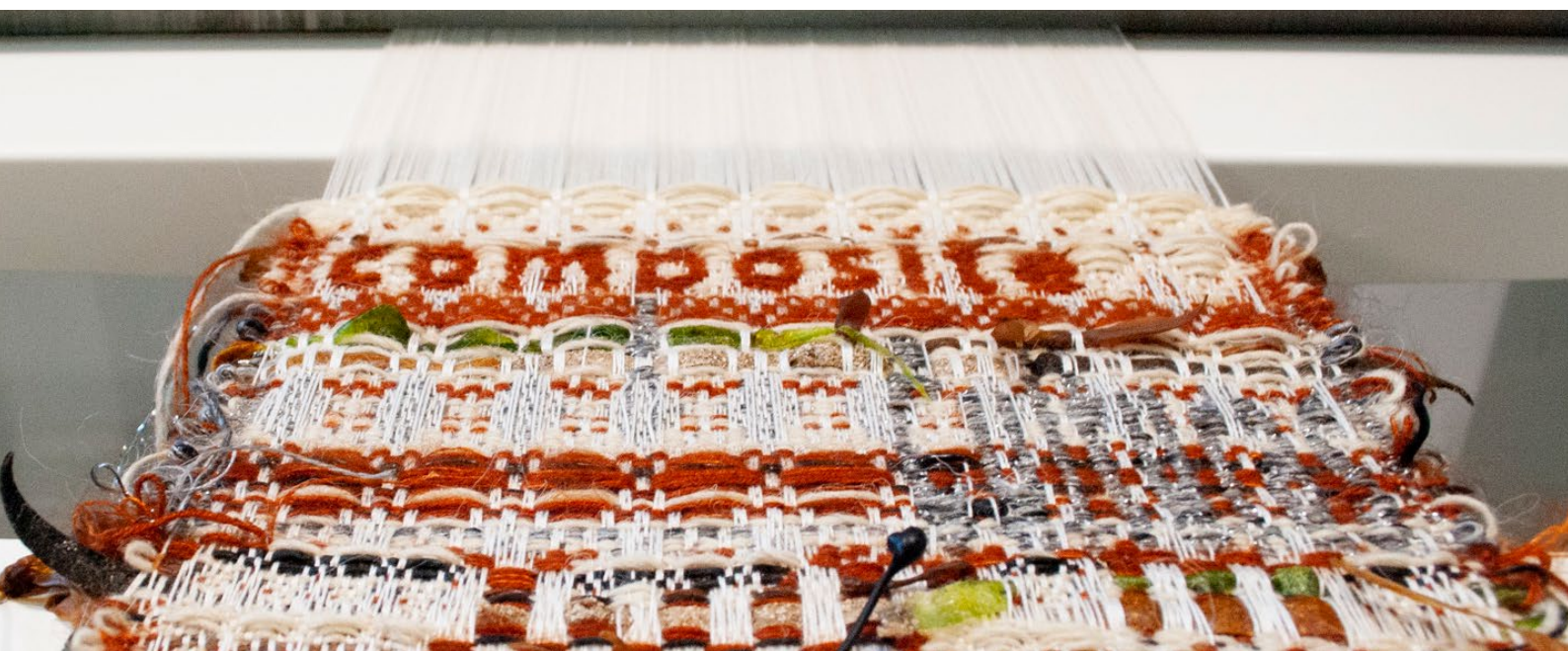


BDC is a convergence space with the mission of propelling the digital transformation of future materials through experimentation, innovation, and collaboration to create technology - based solutions.

Our vision is to become an inspirational hub for creativity, the only one of its kind in Spain, aiming to bring together the talent of our region with the global community and bridge the gap between design and science.

The Basque BioDesign Center in Gueñes serves as a space for experimenting with various digital creation processes and tools. It emphasizes the strategic role of creativity as a productive model, where technology, experimentation, and sustainability converge to promote initiatives aimed at integrating these aspects into the objectives of companies.

BDC is a center where design professionals, creators, and practitioners are educated and guided to develop their own prototypes. Its objective is to equip professionals with strategic management skills that facilitate the transition and redefinition of companies, businesses, and services towards a sustainable and responsible economy. BDC supports creation and production processes, guiding them towards innovation in various artistic expressions, identifying and nurturing talent, promoting participatory management, and fostering connections with the local environment.



### **What can you expect from a textile residency like BILME?**

We seek to update artistic practice with specialized workshops: Access to looms, sewing machines, printing or dyeing equipment.

Connection with local artisans: In many cases, textile artists have the opportunity to learn directly from communities that preserve ancient textile traditions.

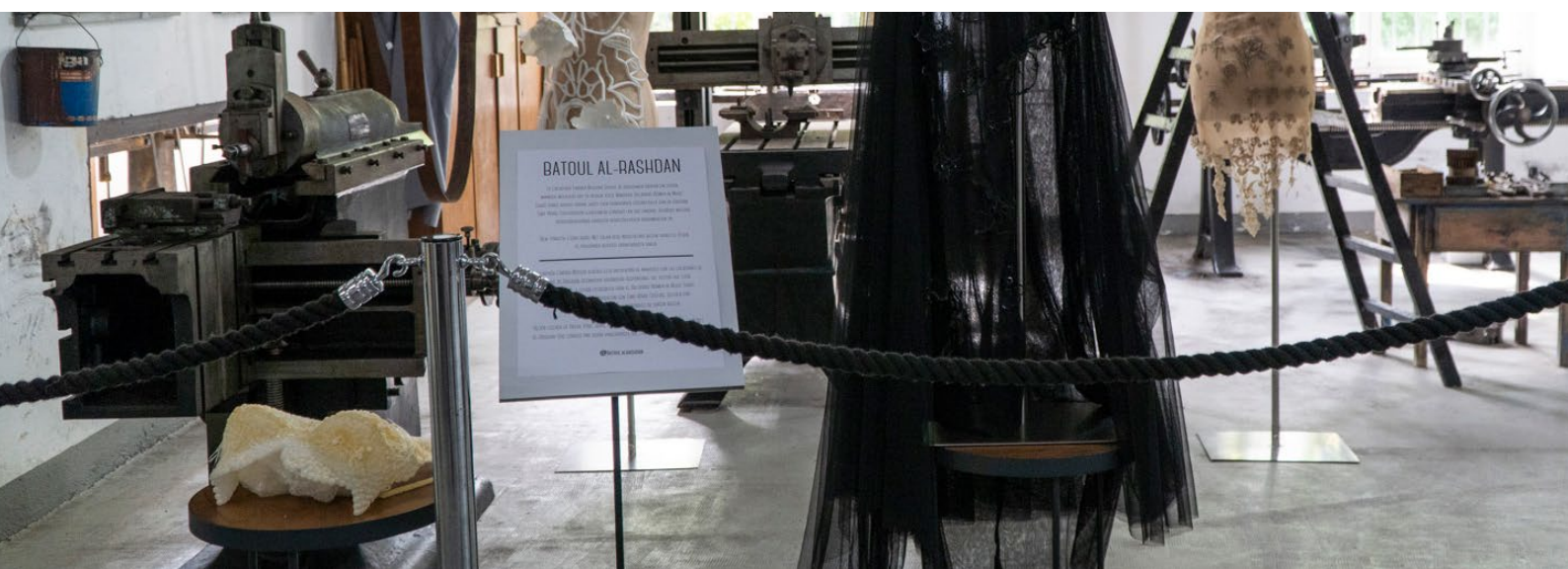
Project development: Time and space to create new collections, installations, textile art pieces or research into materials.

Textile residencies allow a dialogue between the traditional and the contemporary, enriching the artist's work and allowing them to access new perspectives and techniques.

The BDC workshop links the most modern techniques with the old ones from the textile factory at the La Encartada Museum. Where spinning and weaving machines used to be powered by a turbine, there are now computer-controlled equipment that can handle innovative manufacturing processes. Backed by the knowledge and experience of our product developers, technical experts, material experts and curators, the doors of the BDC are open to innovative projects.

### **TC2 Jacquard Loom**

The TC2 Jacquard Loom is an advanced digital loom that allows the creation of complex textile designs through software, used especially by artists, textile designers and researchers in artist residencies focused on contemporary textiles. This type of residency allows artists to experiment with digital textile design and advanced weaving techniques in a specialized environment.



## BDC AXES

**We are committed to the creative research that combines science, design, art... so that the creators of tomorrow contribute to more responsible world for the planet.** We advocate creativity, as a guide to new solutions from a perspective that someone technical would not reach, and from culture to generate narratives that reach more layers of the population.

### Art\_lab

Art laboratory with screen printing and paper printing workshop



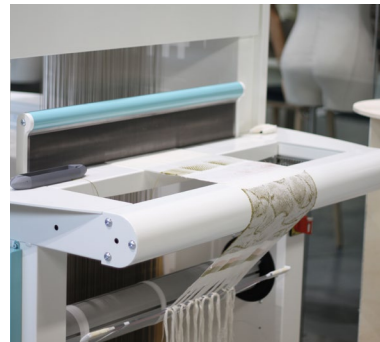
### Bio\_labs

Two laboratories for the materials development with living organisms, such as bacteria, fungi and algae...



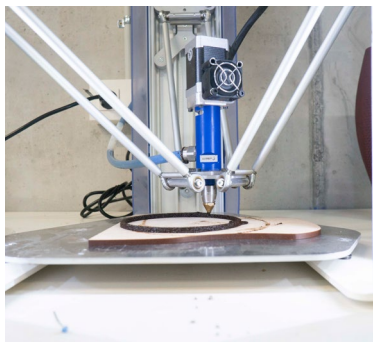
### Textile\_lab

Textile manufacturing laboratory that includes: digital looms, sewing machines, textile printing...



### Digital\_lab

Digital manufacturing laboratory that includes: 3D printing, laser



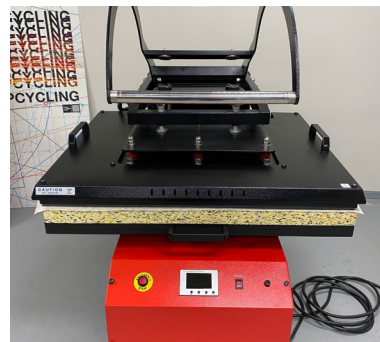
### Wood\_lab

Workshop dedicated to the research and development of products related to wood. Includes CNC and tools.



### Upcycling\_lab

Laboratory or space dedicated to the upcycling of multiple materials, with heat plates, mixers...



### TOUR VIRTUAL:

<https://www.youtube.com/watch?v=MG-uqgGVtm0>



CALL FOR APPLICATIONS

## **BILME**

**Textil**

**Research Residency**

**THE MAIN OBJECTIVE OF THE BILME RESEARCH RESIDENCY IS TO DEVELOP NEW SUSTAINABLE FABRICS FROM NATURAL WASTE. WE ARE LOOKING FOR A WAY TO TRANSFORM, REVALUE AND UNITE RURAL AND URBAN WAYS OF LIFE USING LOCAL RAW MATERIALS.**

### **OBJECT:**

At BDC we offer residency opportunities in different formats, including production residencies, research residencies, and micro residencies. Our main area of interest is focused on the development of projects related to biodesign and the exploration of new materials for various applications.

BDC seeks project proposals that combine a creative vision with technology and science. Previous laboratory experience is optional; all levels of scientific knowledge and experience are welcome.

### **Main research axes:**

- Innovation in textile technology and design
- New materialities in digital weaving
- Digital loom in biodesign and sustainability
- Advanced patterns and structures in digital weaving
- Natural dyes in digital textiles

During their residency period, textile artists will have the opportunity to immerse themselves in an intense process of production and research, enriched by the exchange of ideas and experiences with the centre's team. This residency provides a space for experimentation with digital loom, allowing residents to explore new possibilities in digital weaving and its intersections with biodesign and the circular economy.

**IMPORTANT: This residency is exclusively aimed at artists with previous experience in the use of the digital loom, who can operate the machine autonomously. No training or technical assistance is offered for its use or preparation of the loom; each resident is expected to have the ability to work independently on their process.**

The residencies are aimed at designers, artists, architects and professionals in the visual arts and design who wish to develop projects related to textile materiality, biodesign and sustainability. In addition, residents will have access to our library specialising in new textile and biomaterial practices, as well as enjoying an inspiring rural environment with a rich cultural offering.

### **PROJECT PROPOSAL:**

Before the start of the residency, the resident will send a detailed proposal of the project, which should include objectives, methodology, necessary resources and any other information relevant to its execution. BDC will evaluate the proposal and may request modifications. Once the proposal is approved, it will serve as a guide for the activities during the residency.

### **HOW TO APPLY**

The application is free. There are 2 annual calls, in each semester of the year. Closing dates are: November 15 and June 15

**FEES:**

The cost of registration is €400 (+21% VAT) per month (with the exception of those residents who are within the exchange or funding programs that we maintain with national and international partners). **Important:** *In order to avoid paying 21% of IVA (VAT), participants must be registered as freelancers or businesses with a European tax identification number (VAT number)*

Participants are invited to apply for their own external funding and scholarships.

**Includes:**

- Expenses related to the realization of the artistic project, the production and the promotion of the work carried out.
- Materials: Depending on the period of residency, the materials available in the studio (IMPORTANT: consult for specific materials, processes and tools according to each case and project)
- Access and use of all common work areas.
- Professional assistance and accompaniment by the team during all working hours in the studio.
- Accident insurance
- Wi-Fi Internet access
- Promotion of the work and the residency project through our newsletter and social networks a permanent profile of the resident (and of the exhibition if he/she held one) on the website.

**Not included:**

- Plane ticket or transfer back to the airport
- Traveler's health insurance
- Accommodation, meals
- Visa processing fees
- Special materials not available in the workshop.

**BDC OBLIGATIONS**

Provide the resident with access to the facilities necessary to carry out his/her activities during his/her stay. Provide the logistical and technical support necessary for the development of the resident's activities as previously agreed.

**OBLIGATIONS OF THE RESIDENT**

Carry out artistic and/or research activities as agreed between the parties. Respect the internal rules and regulations of BDC during his/her stay at the residence facilities. Inform BDC in a timely manner of any eventuality that affects the development of the residency.

**INTELLECTUAL PROPERTY**

The intellectual property rights over the artistic works and/or the results of the research developed during the residency will be jointly owned by BDC and the Resident, unless otherwise agreed between the parties.

Both parties agree to maintain the confidentiality of the information exchanged during the residency, unless expressly consented to or required by law.

**PUBLICATION OF MATERIAL**

Both parties agree to promote the publication and dissemination of the generated material, respecting copyright and confidentiality agreements.

Both the resident and the BDC may use the material for their own purposes, subject to consultation and agreement between both parties. Any publication or dissemination of the material must include recognition of the joint authorship of the BDC and the resident.

In the event that a specific transfer of rights is required for a publication or dissemination, both parties must negotiate the terms of said transfer in advance and in writing.

## INFRASTRUCTURE

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### DIGITAL LAB & WOOD LAB

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- Laser cutter
- Vinyl Cutter
- CNC cutting machine
- 3D printer
- Ceramic 3D printer
- Large format ceramic 3D printer
- 3D Scanner
- 3D pen

### TEXTILE LAB

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- Digital sewing machine
- Digital printer
- Digital embroidery machine
- Digital Jacquard Loom
- Overlocker
- Heat press machine
- Steam iron
- Large warper

### ELECTRONIC LAB

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- Electronic power bank
- Soldering iron
- Sensor kit
- Arduino UNO

### ART LAB

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- Engraving presses (two sizes)
- Screen printing octopus
- Washing basin
- Insulator
- Inks and engraving tools
- Large acid bath
- Resinator

### UPCYCLING LAB

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Fiber shredder  
Large heat press machine Textile printer

### BIO LABS

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- Food dehydrator
- Incubator
- Micro scale
- Ozone disinfection cabinets
- Autoclave
- Mycelium culture cabinet
- Electric kettle
- Electric mixers
- Electric pressure cooker
- Microscope
- Bunsen burner
- Various laboratory supplies: petri dishes, syringes, measuring jugs, graduated cylinder, inoculation loops, volumetric flask, glass jars
- Protective equipment: glasses, gowns, and masks
- Mycelium and kombucha culture boxes
- Electric stoves
- Pots of various sizes

### HAND TOOLS

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- Sanders
- Sanding belts
- Angle grinder
- Cordless drill
- Cordless nail gun
- Staple gun
- Circular saw with rail
- Large pliers
- Small pliers
- Industrial vacuum cleaner
- Hand tool kit
- Precision screwdriver
- Dremel
- High pressure cleaning gun
- Glue gun
- Tufting gun
- Air compressor

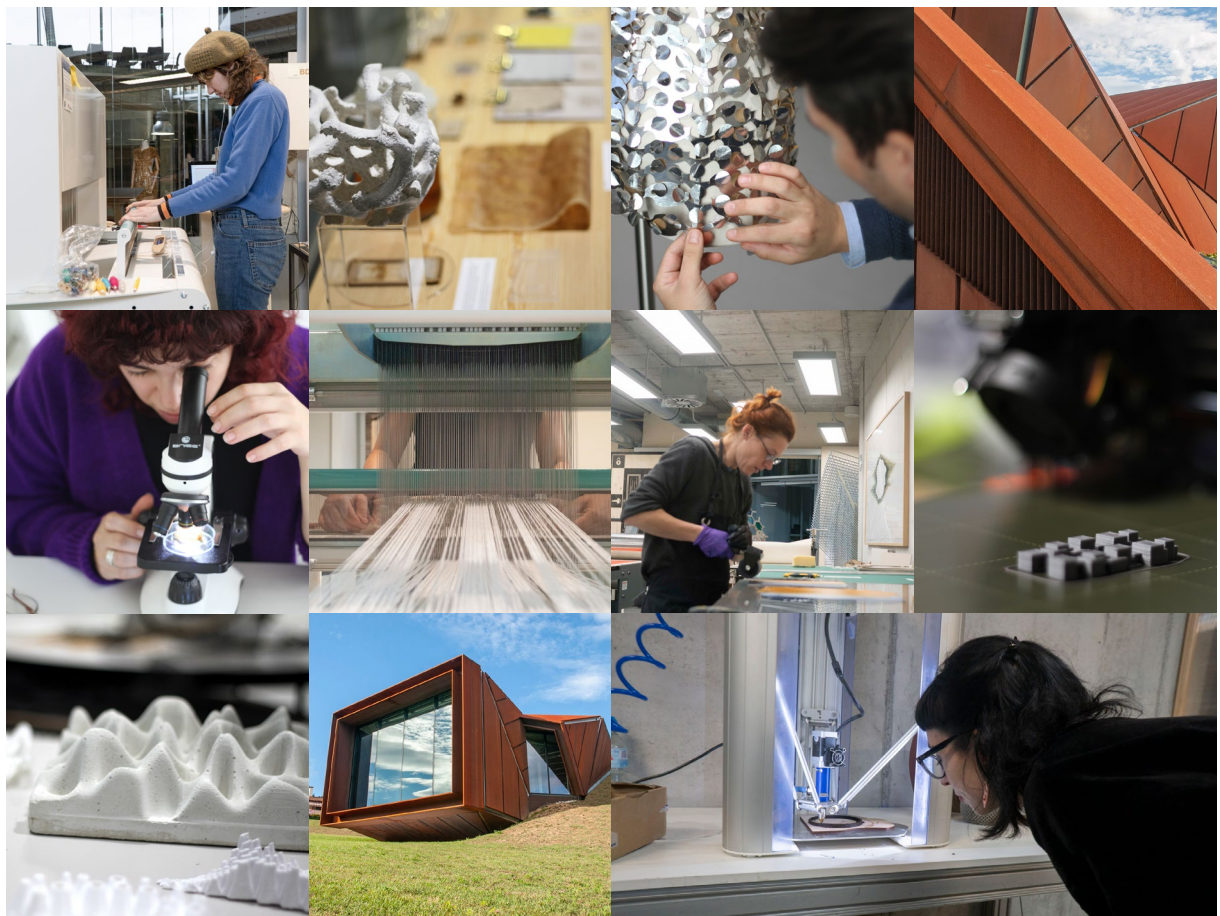
### DOCUMENTATION

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- Photography box
- Professional camera
- Video documentation light
- Mac computers

# Basque **BioDesign** Center

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