

# How to find an Intership

## Student Group

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# How to find an Internship

Be aware, that - depending on the economical situation - it might take up to 200 outreaches to find a suitable internship.

So, it is good to make a structured list (e.g. in EXCEL), to track how far the outreach proceed.

## Possible Templates for Communication

### Email template for a unsolicited application (Initiativbewerbung)

Betreff: Pflichtpraktikum / Praxissemester – Embedded/Elektronik – ab  
<Monat Jahr> (12–20 Wochen)

Guten Tag Herr/Frau <Name> ,

ich studiere <Studiengang> an der <Hochschule> und suche ein  
<Pflichtpraktikum/Praxissemester> ab <Datum>.

Ich kann Ihr Team konkret unterstützen bei:

- <1> (z.B. Embedded C / STM32 / RTOS / CAN)
- <2> (z.B. Prüfaufbauten / Python Testautomation / HIL)
- <3> (z.B. PCB-Layout / Altium / Inbetriebnahme)

Kurzprofil: <1 Satz – was du schon gebaut/getestet hast>.

Anbei: CV + Notenübersicht + 1 Seite Projektportfolio.

<optional>

Ich bin auf Ihr Unternehmen aufmerksam geworden, weil <1 kurzer Bezug:  
Produkt/Technologiefeld/Branche>.

Falls es grundsätzlich denkbar ist, Praktika in Ihrem Bereich zu  
betreuen:

Könnten Sie mir ggf. sagen, ob es bei Ihnen eine passende  
Ansprechperson gibt (fachlich/technisch)

oder ob Sie mir empfehlen würden, mich über einen bestimmten Weg zu  
bewerben?

Viele Grüße

<Name>

<Tel> | <LinkedIn/GitHub> | <E-Mail>

Why this template is likely to work:

1. Recruiters skim extremely fast.
  - In an eye-tracking study, the average initial resume screen was ~7.4 seconds, see [TheLadders Eye-Tracking Study \(PDF\)](#)
  - “Good” resumes shared: clear section/title headers, job titles that pop, and bullet-style accomplishment lists (F-/E-pattern scanning). Cluttered, long-sentence layouts performed

worse.

2. German application guidance explicitly recommends short, value-first openings, see [StepStone: Einleitungssatz Bewerbung](#)
  - opening should be max 2-3 sentences
  - avoid generic phrases
  - explicitly “Mehrwert betonen”.
3. For Germany, email+PDF routing/forwarding is the normal “plumbing” for SMEs too, see [Absolventa: Bewerbung per E-Mail](#).
  - for email applications (incl. Initiativbewerbungen), combine the whole application into one digital file (PDF), because it can be forwarded internally quickly to the right person.
  - The email subject should clearly state what you apply for so it can be assigned correctly.

## Phone script (30 seconds)

```
Hallo, mein Name ist <Name>, ich studiere <Studiengang> an der
<Hochschule>.
Ich habe Ihnen eine kurze Initiativbewerbung für ein Praxissemester
geschickt (Embedded/Elektronik).
Ist das bei Ihnen angekommen – und wer wäre die richtige technische
Ansprechperson?
```

## via Job Portals

In the following some relevant search engines are shown.

Be aware that the following links are already partially filtered by:

- vicinity to Heilbronn
- Praktikum

You might also look for keywords like

- Elektrotechnik, Elektronik, Electronics
- Embedded, Microcontroller
- ECAD,
- EMC, EMV

The following list covers relevant job search sites:

1. [Stepstone](#) - strong in Germany; good filters by city/region
2. [Xing Jobs](#) - Germany-heavy.
  - Refine the search by the “hamburger menu” with
    1. Search radius: as you wish
    2. Employment type: Student
    3. Career level: Student/Intern
3. [LinkedIn Jobs](#) - best for “embedded/firmware” and direct networking
4. [Jobware](#)
5. [GlassDoor](#)

6. [XING - Praktikum Jobs](#)
7. [Absolventa](#)
8. [Bundesagentur für Arbeit - Jobsuche \(Praktika\)](#) - often overlooked, but does not have as much results  
Refine the search by clicking onto "Arbeit" below "Was suchen Sie?" and change it to "Praktikum/Trainee/Werkstudent"

## “Indirect” directories (great for SMEs)

The following websites are good spots to find small and medium enterprises (“SME's”) which might look for engineers.

An unsolicited application to them would a a good idea. 

1. [get in Engineering job search](#)
2. [Fachverband microtec-suedwest](#)
3. [Clusterportal BW](#)
4. [Korporative Mitglieder des VDE Württemberg](#)

Also via the B2B supplier directory one can find EMS/automation integrators fast:

1. [wlw.de: Elektronik-Fertigung \(Heilbronn\)](#)
2. [wlw.de: Elektronik-Fertigung \(Stuttgart\)](#)
3. [wlw.de: Elektronik-Fertigung \(Karlsruhe\)](#)

Additionally, exhibitors are companies which are actively selling & building new products. They often hiring quietly.

also companies from there are suitable for an internship

- [embedded world exhibitors](#)
- [SPS \(automation\) exhibitors](#)
- [Control \(quality/testing\) exhibitors](#)
- [Motek \(production/automation\) exhibitor directory](#)
- [All About Automation](#)
- [Expo for Electronics Manufacturing](#)

## Google operators

### Keywords

Suitable keywords for electronics topics:

- Entwicklungsingenieur, Elektronikentwicklung, Hardwareentwicklung, Automatisierung,
- Prüftechnik, Prüfstand, Testautomatisierung, Hardware-in-the-Loop
- Mikrocontroller, Embedded Software, firmware
- EMV, EMC, EMS, Pre-Compliance
- Leistungselektronik, power electronics, DC/DC, Inverter, Motorsteuerung, BMS, Batterie Management, SiC, GaN, power electronics, Schaltnetzteil
- PCB Layout, Leiterplattenlayout, Altium, kiCAD, ECAD, Leiterplattenbestückung,

Suitable keywords for roles:

- ( "Internship" OR "Working student" OR "Bachelorarbeit" OR "Masterarbeit" OR "Abschlussarbeit" OR "Pflichtpraktikum" OR "Werkstudent" OR "Praxissemester" OR "Praktikum" )

## Add the region smartly

Append one of these blocks:

- (Heilbronn OR Neckarsulm OR "Region Stuttgart" OR Ludwigsburg OR Böblingen OR Sindelfingen OR Esslingen)
- (Karlsruhe OR Ettlingen OR Bruchsal OR Pforzheim OR "Technologieregion Karlsruhe")
- (Mannheim OR Heidelberg OR Ludwigshafen OR "Rhein-Neckar")

## filter urls

Often the URLs of the companies have "job-relevant" keywords, like:

- inurl:karriere
- inurl:jobs
- inurl:stellen

## Examples search strings

Search **career pages** directly:

- ("Praktikum" OR "Praxissemester" OR "Werkstudent") (Embedded OR Elektronik OR Prüftechnik) (Heilbronn OR Stuttgart OR Karlsruhe OR Mannheim) inurl:karriere
- (Praxissemester OR Abschlussarbeit) Elektronik inurl:jobs
- (Prüftechnik OR EMV OR EMC) Praktikum inurl:stellen

Exclude giants (reduce noise):

- ("Praktikum Embedded" Stuttgart) -Bosch -Porsche -Mercedes -Daimler -SAP -ZF -Continental

General search for suitable companies

- ("Leiterplattenbestückung" OR EMS OR "Elektronikfertigung") (Heilbronn OR Karlsruhe OR Mannheim)

Search LinkedIn via Google

- site:linkedin.com/jobs ("Werkstudent" AND Embedded AND Stuttgart)
- site:linkedin.com/company ("Elektronik" AND "Karriere") Stuttgart

## Examples for SME Jobs

Examples for possible jobs beyond the big players (from 16.12.25):

1. ATS Automation - Praktikum in Engineering & Design
2. Schulz Group - Praktikant / Werkstudent (m/w/d) Produktentwicklung – Konstruktion & Elektronik

3. Carrybots - Installation und Deployment Mobile Roboter, Softwareentwicklung Robotik ROS
4. VEGA Grieshaber - Abschlussarbeit/Praktikum/Werkstudententätigkeit: Hardware oder Software im Bereich Embedded Systems

## Job Fairs

**Important:** dates shift slightly each year - start checking **Aug/Sep** and bookmark the “event calendar” pages.

A quick list of the job fairs that regularly deliver SMEs and “hidden gems”

- **MeetING (HHN, Heilbronn)** - engineering-focused, very regional (Oct)
- **CareerContacts (HKA, Karlsruhe)** - multiple days, includes engineering faculties (Oct)
- **IT-Mittelstandstag (HS Esslingen)** - explicitly SME-focused (Nov)
- **StepIn (Uni Stuttgart)** - all engineering, annual (Nov)
- **bonding Firmenkontaktmesse Karlsruhe** - big student fair; many suppliers/SMEs participate (late Nov)

### Calendar (between 01.10 - 31.12, recurring / usually each year)

When (usually)	Event	Where	Why it's useful for electronics/embedded internships	Link
October (early/mid)	<b>MeetING (Firmenkontaktmesse für Ingenieur-Studierende)</b>	Hochschule Heilbronn (TechCampus)	Regional employers, suppliers, engineering services; easy to ask for Praxissemester/Praktikum	<a href="#">MeetING (HHN)</a>
October (20-23-ish)	<b>CareerContacts</b>	Hochschule Karlsruhe (HKA)	Multi-day career fair; includes engineering & IT; good for “quiet hiring”	<a href="#">CareerContacts (HKA)</a>
October (mid/late)	<b>Karrieretag Karlsruhe</b> (open fair)	Karlsruhe (e.g., Schwarzwaldhalle)	General fair, but often many regional SMEs + direct CV checks	<a href="#">Karrieretag Karlsruhe (Stadt-Kalender)</a>
October (mid/late)	<b>CareerSprint Mittelstand</b>	TH Mannheim	Campus-based “Mittelstand” format; good for internships/theses	<a href="#">CareerSprint Mittelstand (TH Mannheim)</a>
October (mid/late)	<b>Aalener Industriemesse (AIM for students)</b>	Hochschule Aalen	Classic engineering student fair; many tech companies from BW	<a href="#">AIM for students (Aalen)</a>
Oct-Dec (lecture series)	<b>Hohenheimer CareerDays</b>	Universität Hohenheim (Stuttgart)	Company talks + networking; some industrial/tech companies show up	<a href="#">Hohenheimer CareerDays</a>
November (early)	<b>MeetIT</b>	Hochschule Heilbronn (TechCampus)	Great for embedded/IoT/software-near-hardware internships	<a href="#">MeetIT (HHN)</a>
November (early, Wed)	<b>IT-Mittelstandstag</b>	Hochschule Esslingen	SME-heavy by design; ideal for “hidden gems”	<a href="#">IT-Mittelstandstag (HS Esslingen)</a>
November (mid)	<b>Informatik-Kontaktmesse</b>	Universität Stuttgart (Informatikgebäude)	Not only IT: many embedded/automation employers recruit here too	<a href="#">Informatik-Kontaktmesse (Uni Stuttgart)</a>
November (mid/late)	<b>StepIn - Firmenkontaktmesse</b>	Universität Stuttgart (Campus Vaihingen)	Annual engineering fair; practical for Praktikum/Bachelor/Master topics	<a href="#">StepIn (Uni Stuttgart/TRACES)</a>
Late November	<b>bonding Firmenkontaktmesse Karlsruhe</b>	Karlsruhe	Very big student fair; many SMEs, suppliers, engineering services	<a href="#">bonding Karlsruhe</a>
December (early)	<b>Firmenkontaktmesse (e.g., SimTech / Uni Stuttgart)</b>	Universität Stuttgart (Campus Vaihingen)	Often niche/tech-specific companies; good for R&D internships	<a href="#">SimTech Firmenkontaktmesse (example page)</a>
December (support events)	<b>Career Service workshops</b> (CV checks etc.)	Uni Stuttgart / online	Not a fair, but boosts application quality fast (useful for internationals)	<a href="#">TRACES event calendar</a>
December (networking)	<b>VDE After Work Stuttgart</b>	Stuttgart	Short networking evening; good for informal contacts + hidden roles	<a href="#">VDE After Work Stuttgart</a>



ID	Company	Company name	Short description	Tags	State (Bundesland)
207	Heilbronn	Carlisle	Software for pharmaceuticals – automation, control and industrial engineering (also process design and development)	Factory Automation/Mechatronics, Industrial Automation, Robotics, Industrial Research/IGT, Embedded Software, Systems Engineering, Testing/Test Automation, V&E	Baden-Württemberg • Region + more
212	Heilbronn	Carlisle	Production systems for industry/industry – wiring, mechanics and software/control development	Drive & Motion Control, Mechatronics, Systems, Robotics, Automation/Robotics, Systems Engineering, Testing/Test Automation	Baden-Württemberg • more
213	Heilbronn	Carlisle	Building automation systems with integrated connectivity/OT devices, embedded software, firmware, electronics design (schematics/PCB), testing/test automation, cybersecurity (embedded)	Connectivity/OT Devices, Embedded Software, Firmware, Electronics Design (Schematics/PCB), Testing/Test Automation, Cybersecurity (Embedded)	Baden-Württemberg • more

From:

<https://mexle.te.hs-heilbronn.de/> - **MEXLE Wiki**

Permanent link:

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