



czech workforce

# Manufacturing

Regional

Employment and

Median Wage

by Occupation

2011-2016 - Bohemia

Report 7– 2011-2016 data

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The material has been prepared for AmCham members; our Councils and Best Office Committees may make use of some of the data and conclusions for their own activities. Contact Katarina Bendikova at [kbendikova@amcham.cz](mailto:kbendikova@amcham.cz) for more information.

## key findings

**Employment.** Prague had the highest employment drop in the 2011-2016 period among the five Bohemian regions and the set of manufacturing occupations covered by this report, with *Manufacturing plant managers* number falling by 26%. (but *Mechanical engineering technicians* number went up by 73%). Year-on-year in Prague in 2016, *Research and development managers* recorded a decrease by 10.62%, while in other regions, the number of the positions stagnated.

**Employment.** Central Bohemian region recorded the largest employment increase in the 2011-2016 period, among the manufacturing positions observed, with *Research and development managers* number growing by 50% and *Lifting truck operators* by 67%. Year-on-year in 2016, *Stationary plant and machine operators*, *Lifting truck operators* and *Industrial and production engineers* positions rose by 15-16%. The employment of *Metal, machinery and related trades workers* decreased by 10% y-o-y.

**Employment.** Plzeňský region doubled the employment of *Research and development managers* and *Manufacturing labourers not elsewhere classified* in the 2011-2016 period. Year-on-year, *Industrial and production engineers* number rose by over 28%.

**Employment.** In the South Bohemian region, employment of *Mechanical engineering technicians* and *Manufacturing supervisors* increased by more than 50% in the 2011-2016 period. *Mechanical engineers*, *Assemblers* and *Lifting truck operators* recorded the highest year-on-year growth of 25-33%.

**Employment.** The Ústecký region experienced a drop by 20% in employment of *Manufacturing plant managers* and *Mechanical engineers* in the 2011-2016 period. *Lifting truck operators* and *Manufacturing supervisors* recorded the highest increase in number in the period (64% and 33%, respectively). Year-on-year, *Mechanical engineers* and *Production clerks* grew by around 33%.

**Wages.** In the 2011-2016 period, median wages in the South Bohemian region recorded the highest growth among the five regions and occupations covered by this report, ranging from 11.64% (*Mechanical engineering technicians*) to 68.84% (*Manufacturing plant managers*).

**Wages.** Median wage of *Manufacturing labourers not elsewhere classified* in the Prague region doubled in the 2011-2016 period, while *Mechanical engineers'* median wage grew by 3.5%.

**Wages.** Prague was also the only region among the five regions where y-o-y median wage of *Research and development managers* recorded negative growth (-3.13%). In all other regions, median wages of R&D managers grew by 0.07% (Central Bohemia) to 8.28% (South Bohemia).

In the 2011-2016 period, *Lifting truck operators'* employment rose sharply in most of the regions covered by this report; in Central Bohemia (by 67%), Ústecký region (an increase by 64%, median wage growth by 35%), Prague (47%) and South Bohemia (45.8%, median wage growth by 55%), and 28% in the Plzeňský region.



## **czech workforce: seven**

Employment and median wage by occupation in manufacturing, regionally

### **Manufacturing: Employment and Wages by Occupation**

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Employment and median wage by occupation in Manufacturing

### **Manufacturing Workforce: Employment, 2011-2016, Prague, Central Bohemian, South Bohemian, Plzeňský and Ústecký regions**

In the **2011-2016 period**, among the five Bohemian regions covered by this report, the **Central Bohemian region** recorded generally the highest employment growth in occupations surveyed, including *Research and development managers* (growth by 50%), *Manufacturing plant managers* (22%), *Mechanical engineers* (41.94%), *Production clerks* (41.16%), *Lifting truck operators* (67.05%), *Manufacturing labourers not elsewhere classified* (63.89%) or *Assemblers* (26.45%). In the **Plzeňský region**, the number of *Research and development managers* and *Manufacturing labourers not elsewhere classified* more than doubled in the period. The number of positions of *Mechanical engineers* and *Manufacturing supervisors* rose by more than 33%.

In the **South Bohemian** region, the number of *Mechanical engineering technicians* and *Manufacturing supervisors* increased by more than 50% in the period. In the **Ústecký region**, employment of *Lifting truck operators* grew by 64%, followed by *Manufacturing Supervisors* (33.33%), while *Manufacturing plant managers* and *Mechanical engineers* fell by 20%. In the **Prague region**, *Mechanical engineering technicians* recorded the highest employment growth (73.08%) in the 2011-2016 period, unlike *Production and Stock clerks* (-60.69% and -20%, respectively), *Manufacturing plant managers* (-26.32%) or *Stationary Plant and Machine Operators* (-23.68%).

**Year on year in 2016**, in the **South Bohemian region**, *Mechanical engineers* and *Assemblers* recorded growth of 33% and 31%, respectively, followed by *Lifting truck operators* (25%). *Mechanical engineers* and *Production clerks* added around 33% y-o-y in the **Ústecký region**. *Industrial and production engineers* added 28.57% in the **Plzeňský region**. In **Central Bohemia** and **Prague**, the highest recorded y-o-y increases included, respectively, *Stationary plant and machine operators* (16.8%) and *Industrial and production engineers* (14.63%).

Employment	HMP			STR			JHC			PLZ			UST		
	2016	yoy increase	increase since 2011	2016	yoy increase	increase since 2011	2016	yoy increase	increase since 2011	2016	yoy increase	increase since 2011	2016	yoy increase	increase since 2011
<b>Management</b>															
ILO code Overall	15,1	1,34%	3,42%	6,9	-2,82%	-13,75%	3,0	-11,76%	-18,92%	3,3	6,45%	17,86%	4,3	2,38%	16,22%
1321 Manufacturing Managers	1,4	0,00%	-26,32%	3,8	5,56%	22,58%	1,0	11,11%	-9,09%	1,2	0,00%	-7,69%	1,2	0,00%	-20,00%
1223 Research and Development Managers	0,8	-10,62%	na	0,6	0,00%	50,00%	0,2	0,00%	na	0,2	0,00%	100,00%	0,1	0,00%	na
<b>Professionals</b>															
ILO code Overall	25,7	-1,53%	5,76%	11,1	5,71%	44,16%	5,1	0,00%	na	4,7	6,82%	11,90%	4,0	-9,09%	33,33%
2141 Industrial and Production Engineers	4,7	14,63%	na	1,5	15,38%	na	0,5	na	na	0,9	28,57%	na	0,7	0,00%	na
2144 Mechanical Engineers	1,2	9,09%	0,00%	4,4	0,00%	41,94%	0,8	33,33%	33,33%	1,6	14,29%	33,33%	0,4	33,33%	-20,00%
<b>Technicians</b>															
ILO code Overall	31,4	5,37%	6,44%	23,9	3,46%	19,50%	14,5	11,54%	31,82%	10,9	0,93%	6,86%	16,2	0,62%	9,46%
3115 Mechanical Engineering Technicians	4,5	9,76%	73,08%	5,9	-1,67%	7,27%	3,6	9,09%	56,52%	2,5	8,70%	38,89%	2,8	3,70%	21,74%
3122 Manufacturing Supervisors	2,3	0,00%	15,00%	5,2	13,04%	20,93%	3,2	3,23%	52,38%	3,1	3,33%	6,90%	4,0	2,56%	33,33%
<b>Clerical</b>															
ILO code Overall	21,9	4,29%	11,73%	11,7	4,46%	4,46%	5,4	0,00%	-27,03%	6,2	0,00%	-1,59%	5,8	-3,33%	11,54%
4321 Stock Clerks	4,6	-4,82%	-20,00%	4,3	13,20%	-20,32%	1,3	12,31%	-33,98%	2,5	-1,91%	na	1,2	-0,20%	-15,59%
4322 Production Clerks	0,2	-9,16%	-60,69%	0,8	10,02%	41,16%	0,5	2,56%	na	0,3	-5,75%	-34,82%	0,4	32,87%	na
<b>Craftsmen</b>															
ILO code Overall	18,8	6,82%	6,21%	27,6	-10,39%	2,60%	17,4	13,73%	12,26%	16,8	5,66%	23,53%	14,2	-1,39%	-18,86%
72 Metal, Machinery and Related Trades Workers															
<b>Machine Operators and Assemblers</b>															
ILO code Overall	5,8	-6,45%	-23,68%	20,1	16,18%	10,44%	8,3	-2,35%	-3,49%	9,1	1,11%	-18,02%	19,5	7,14%	20,37%
81 Stationary Plant and Machine Operators	5,5	-6,78%	19,57%	19,6	-2,97%	26,45%	13,0	31,31%	38,30%	16,0	2,56%	15,94%	7,9	-7,06%	-2,47%
82 Assemblers	7,5	11,94%	47,06%	14,7	15,75%	67,05%	3,5	25,00%	45,83%	3,2	10,34%	28,00%	4,1	10,81%	64,00%
8344 Lifting Truck Operators	4,8	-2,04%	-15,79%	5,9	11,32%	63,89%	2,5	8,70%	-24,24%	4,3	0,00%	115,00%	4,0	11,11%	2,56%
9329 Manufacturing Labourers Not Elsewhere Classified															



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Employment and median wage by occupation in Manufacturing

### Manufacturing Workforce: Median Wages, 2011-2016, Prague, Central Bohemian, South Bohemian, Plzeňský and Ústecký regions

Generally, in the **2011-2016 period**, median wages in the **South Bohemian region** experienced the highest growth among the five regions and occupations covered by this report, ranging from 11.64% (*Mechanical engineering technicians*) to 68.84% (*Manufacturing plant managers*). Median wage of *Manufacturing labourers not elsewhere classified* in the **Prague region** doubled in the period, while *Mechanical engineers* have seen their median wage grow by mere 3.54%.

In the **Central Bohemian region**, median wage of *Research and development managers* recorded the highest growth in the 2011-2016 period (32.09%). On the opposite side there are *Manufacturing labourers not elsewhere classified* whose median wage went up by 4.41%, compared with 2011. *Production clerks* recorded the highest median wage growth (31.14%) in the **Plzeňský region** in the period, while median wage of *Mechanical engineers* in 2016 were practically at their 2011 level. In the **Ústecký region**, *Manufacturing labourers not elsewhere classified* and *Manufacturing plant managers* experienced the highest median wage growth (34.92% and 34.27%, respectively). *Manufacturing supervisors* have seen their median wage fall (by 1.12% , compared with 2011).

**Year-on-year in 2016**, median wages of *Manufacturing supervisors* in the **South Bohemian region** dropped by 59.62% and *Manufacturing labourers not elsewhere classified* recorded the greatest y-o-y median wage increase (16.75%). *Assemblers* in the **Prague region** saw their median wage rise by 19.5% in 2016, while median wage of *Research and development managers* fell by 3.13%. In the **Central Bohemian region**, median wages of *Manufacturing plant managers* and *Manufacturing labourers not elsewhere classified* grew by around 10% y-o-y, while *Stock clerks'* median wage fell by 1.92%. *Stationary plant and machine operators* recorded the highest y-o-y wage increase in the **Plzeňský region** (8.12%). *Manufacturing plant managers* saw their median wage decrease (by 1.13%). *Assemblers* experienced the highest (12.24%) and *Industrial and production engineers* the lowest (-3.2%) y-o-y median wage growth in the **Ústecký region**.

Wages	HMP			STR			JHC			PLZ			UST		
	2016	yoy increase	increase since 2011	2016	yoy increase	increase since 2011	2016	yoy increase	increase since 2011	2016	yoy increase	increase since 2011	2016	yoy increase	increase since 2011
<b>Management</b>															
ILO code Overall	57 461	1,66%	-5,69%	62 168	11,94%	42,65%	48 795	5,99%	37,52%	46 750	1,81%	8,80%	39 150	0,76%	1,71%
1321 Manufacturing Managers	55 780	1,99%	-9,88%	68 940	10,32%	18,15%	64 411	8,46%	68,84%	50 904	-1,13%	10,31%	55 227	5,08%	34,27%
1223 Research and Development Managers	77 820	-3,13%	na	62 845	0,07%	32,09%	58 871	8,28%	na	80 402	2,38%	25,30%	67 863	3,13%	na
<b>Professionals</b>															
ILO code Overall	41 287	1,05%	5,84%	46 276	2,79%	10,69%	36 299	14,38%	na	39 980	3,94%	15,59%	36 200	4,63%	-6,73%
2141 Industrial and Production Engineers	41 239	-1,62%	na	39 127	2,39%	na	33 925	na	na	34 486	-1,10%	na	34 334	-3,20%	na
2144 Mechanical Engineers	46 621	-0,63%	3,43%	54 647	5,30%	23,49%	49 885	13,31%	27,95%	40 701	2,65%	0,07%	46 902	4,05%	18,61%
<b>Technicians</b>															
ILO code Overall	33 447	2,36%	10,39%	33 245	4,39%	12,18%	30 301	4,68%	12,72%	33 391	2,20%	19,43%	30 168	4,57%	7,44%
3115 Mechanical Engineering Technicians	35 795	6,53%	17,60%	37 898	7,45%	22,54%	32 598	5,86%	11,64%	33 543	3,02%	26,00%	31 411	8,87%	9,25%
3122 Manufacturing Supervisors	36 215	-1,90%	4,38%	36 629	5,97%	15,82%	35 522	-59,62%	25,80%	36 280	0,89%	23,35%	30 364	7,00%	-1,12%
<b>Clerical</b>															
ILO code Overall	28 561	3,58%	10,38%	26 174	4,81%	19,14%	24 633	3,84%	22,26%	24 087	3,55%	8,24%	25 206	2,93%	16,23%
4321 Stock Clerks	24 713	3,65%	8,28%	24 158	-1,92%	18,92%	23 333	4,88%	25,63%	23 762	7,12%	na	24 454	5,94%	26,91%
4322 Production Clerks	29 449	4,67%	8,19%	32 859	6,33%	13,62%	27 521	9,83%	na	32 437	1,78%	31,14%	30 793	1,72%	na
<b>Craftsmen</b>															
ILO code Overall	25 972	3,68%	6,06%	28 232	3,61%	13,23%	25 667	8,15%	19,91%	27 541	3,88%	16,80%	25 006	3,70%	16,59%
72 Metal, Machinery and Related Trades Workers															
<b>Machine Operators and Assemblers</b>															
ILO code Overall	25 039	3,71%	12,13%	24 568	3,77%	12,69%	21 738	3,98%	18,44%	23 157	8,12%	22,40%	24 859	6,66%	11,12%
81 Stationary Plant and Machine Operators	23 574	19,50%	39,01%	26 233	7,62%	18,84%	21 667	1,71%	26,76%	23 948	5,25%	18,08%	21 753	12,24%	25,75%
82 Assemblers	23 736	5,58%	8,35%	25 844	3,06%	12,45%	22 342	3,18%	13,32%	25 907	5,69%	20,71%	22 754	8,91%	14,78%
8344 Lifting Truck Operators	17 724	8,26%	103,10%	18 156	10,27%	4,41%	18 383	16,75%	54,89%	18 081	3,98%	6,26%	20 760	5,75%	34,92%
9329 Manufacturing Labourers Not Elsewhere Classified															



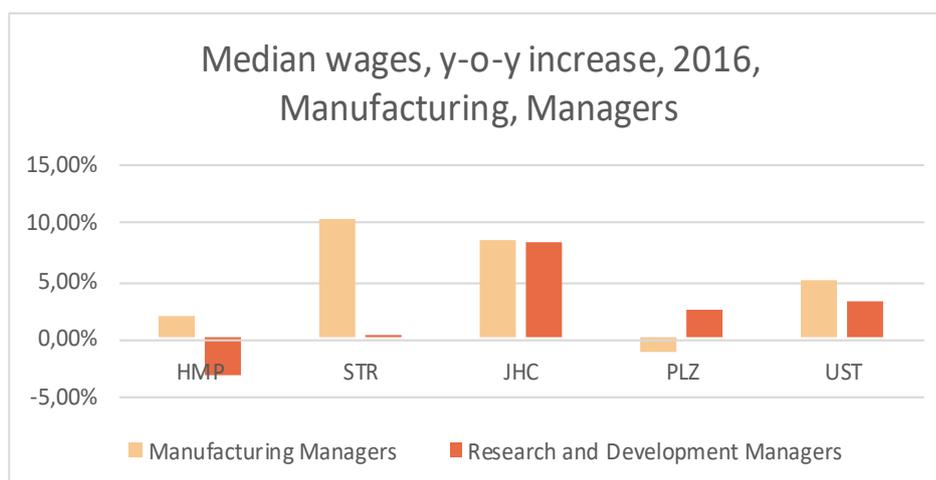
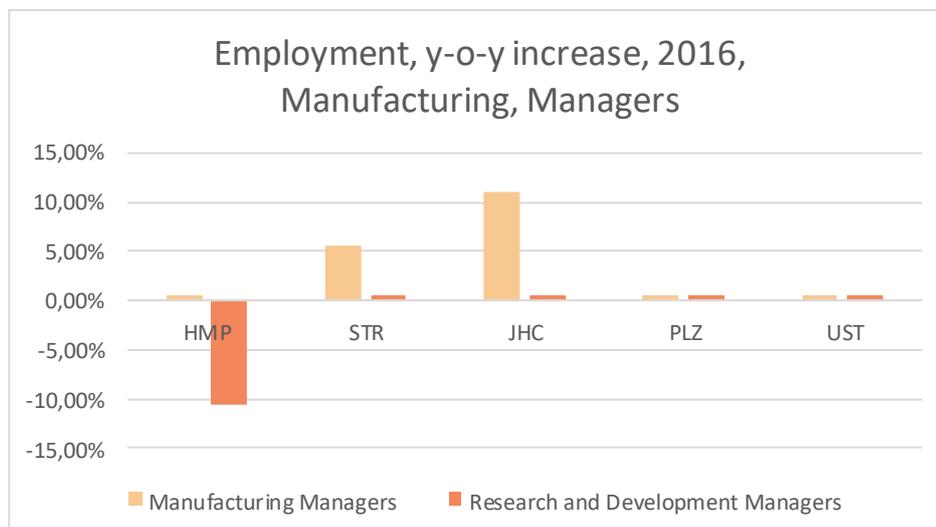
## czech workforce: seven

Employment and median wage by occupation in manufacturing, regionally

### Manufacturing workforce in regions: Managers, Median Wage and Employment, 2011-2016

In the 2011-2016 period, **Central Bohemian region** was the only region among the five regions covered by this report to record growth in the number of *Manufacturing plant managers* (22.58%). Also, **Central Bohemian Manufacturing plant managers** saw their wages grow by 18% in the period. Even higher median wage growth (+34%) was recorded in the **Ústecký region**, but unlike Central Bohemia, employment of manufacturing plant managers fell by 20%. **Prague's Manufacturing plant managers** have seen even greater drop in number since 2011 (-26%), accompanied by median wage decrease of almost 10%. *Research and development managers* employment doubled in the **Plzeňský region** (accompanied by median wage growth of 25.3% in the period). In **Central Bohemia**, R&D managers grew in number by 50% and their median wage rose by 32% since 2011.

**Year-on-year** in 2016, the **Prague region** reported decrease in the employment of *Research and development managers* (-10.62%), while in other regions, the number of the positions stagnated. Prague was also the only region among the five regions where y-o-y median wage of *Research and development managers* recorded negative growth (-3.13%). In all other regions, median wages of R&D managers grew by 0.07% (Central Bohemia) to 8.28% (South Bohemia).





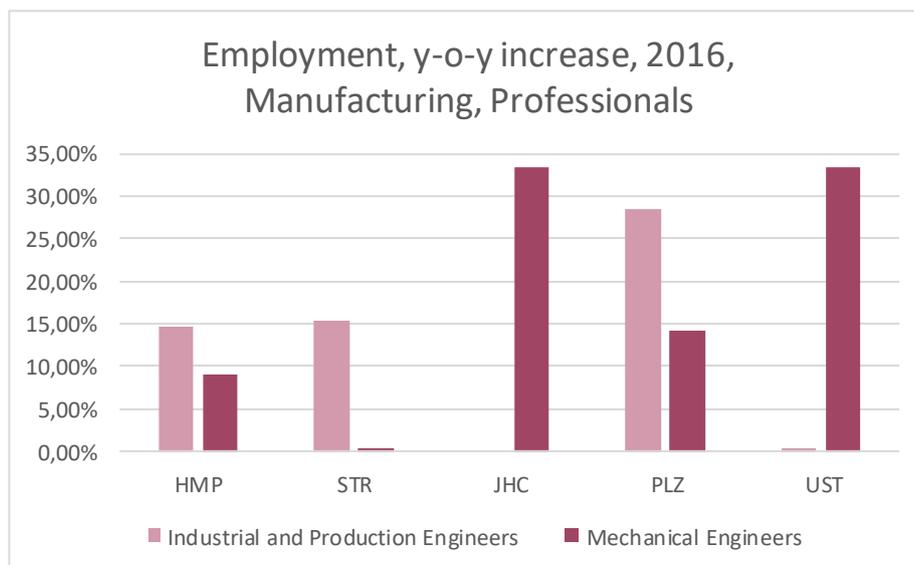
## czech workforce: seven

Employment and median wage by occupation in manufacturing, regionally

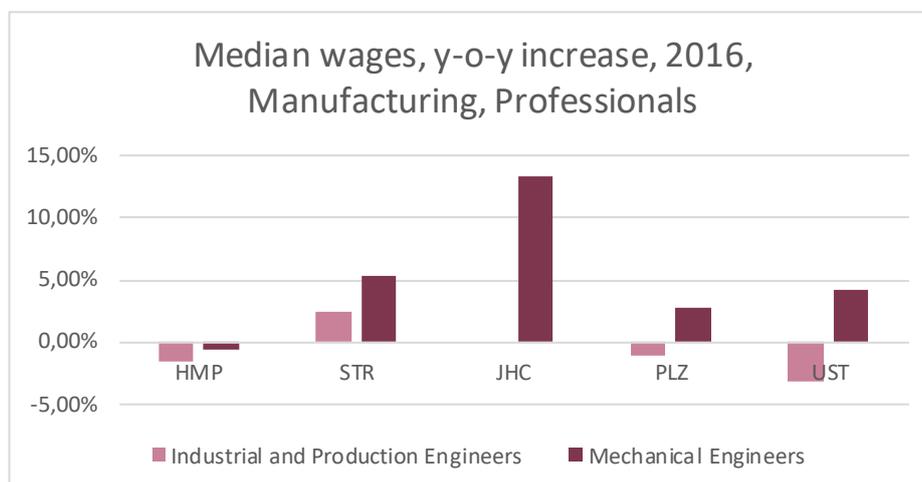
### Manufacturing workforce in regions: Professionals, Median Wage and Employment, 2011-2016

In the 2011-2016 period, employment of *Mechanical engineers* grew in the **Central Bohemian** (by 42%), **Plzeňský** and **South Bohemian** regions (33% both), while in **Prague**, it stagnated and in the **Ústecký** region it dropped by 20%. Median wage of *Mechanical engineers* rose in **South Bohemian** (by 28%), **Central Bohemian** (23.49%) and **Ústecký** (18.61%) regions.

Year-on-year in 2016, employment of *Industrial and production engineers* grew in the **Prague** (14.63%), **Central Bohemian** (15.38%) and **Plzeňský** regions (28.57%), Their median wage decreased y-o-y in the **Ústecký**, **Plzeňský** and **Prague** regions.



Note: Data for Industrial and Production Engineers in South Bohemia are not available.



Note: Data for Industrial and Production Engineers in South Bohemia are not available.

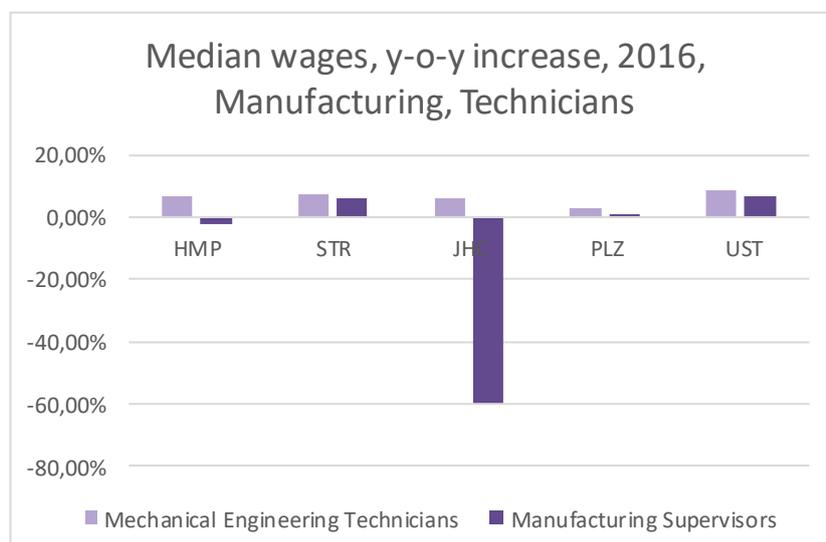
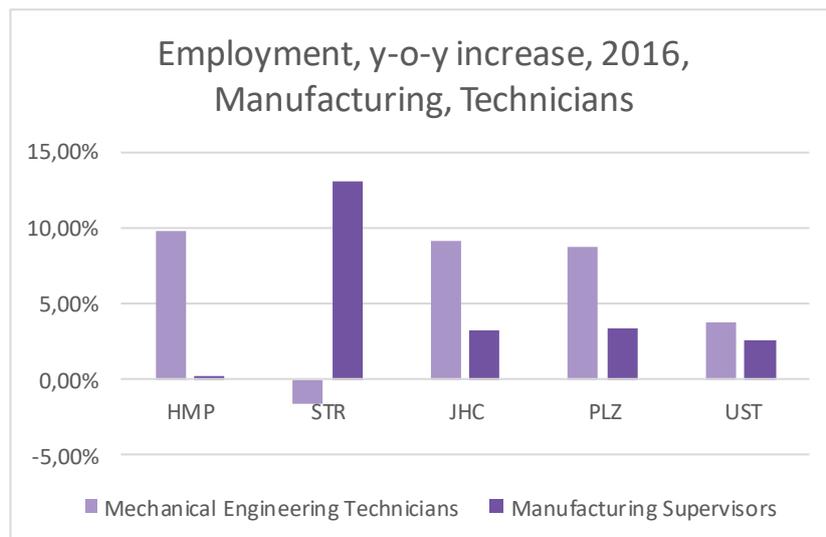


## czech workforce: seven

Employment and median wage by occupation in manufacturing, regionally

### Manufacturing workforce in regions: Technicians, Median Wage and Employment, 2011-2016

In the 2011-2016 period, employment and median wage of *Mechanical engineering technicians* increased in all five regions, most notably in **Prague** (by 73%, accompanied by median wage growth of 17.6% in the period), **South Bohemian** (56.52% / 11.6% median wage growth) and **Plzeňský regions** (39% / 26% wage growth in the period). In the **South Bohemian region**, *Manufacturing supervisors* added the most positions (an increase by 52% since 2011), followed by the **Ústecký region** (33%). Their median wage in the **Ústecký region** fell by 1.12%, though, unlike **South Bohemia** where *Manufacturing supervisors*' median wage rose by 26% in the period. Still, **year-on-year in 2016**, it was **South Bohemian Manufacturing supervisors** who saw their median wage drop by almost 60%, while in other four region the median wage growth ranged from – 1.9% (Prague) to 7% (Ústecký region).





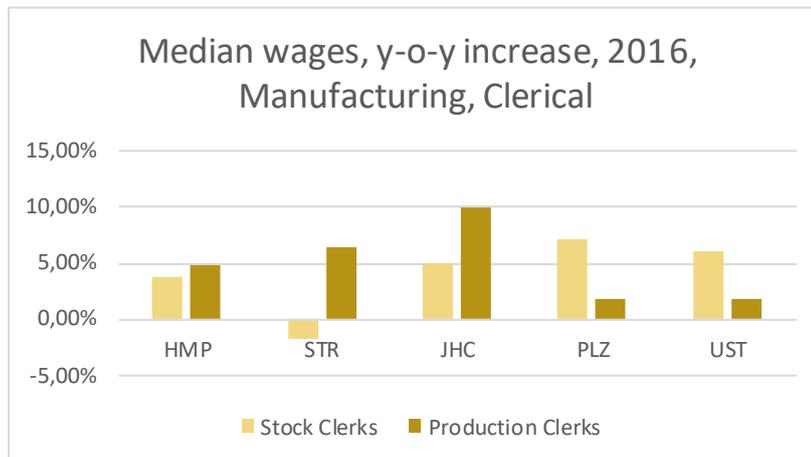
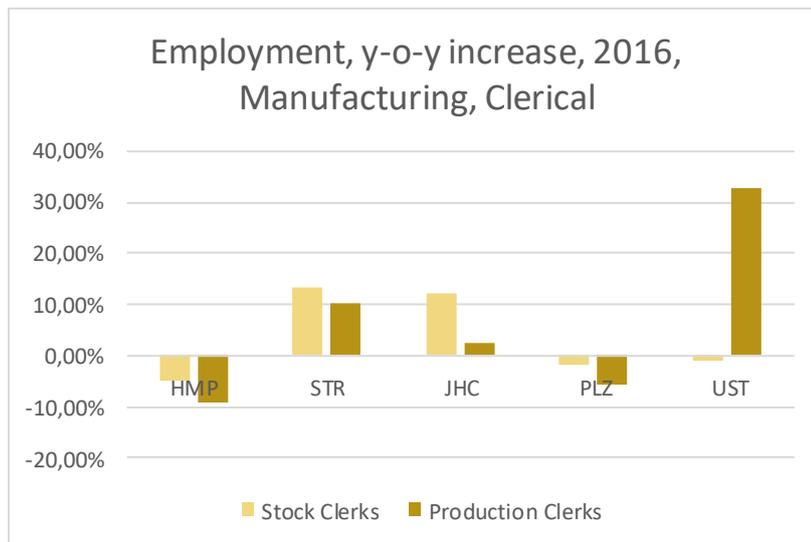
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Employment and median wage by occupation in manufacturing, regionally

**Manufacturing workforce in regions: Clerical, Median Wage and Employment, 2011-2016**

In the 2011-2016 period, where data were available, clerical workers experienced employment drop in all regions covered by the report, especially in Prague (-60.69% in Production clerks and -20% in Stock clerks). The only increase in the period (by 41%, Production clerks), was reported in Central Bohemia. Production clerks' median wage growth in the period ranged from 8.19% (Prague) to 31% (Plzeňský region).

Year-on-year in 2016, employment of Production clerks added over 30% in the Ústecký region.





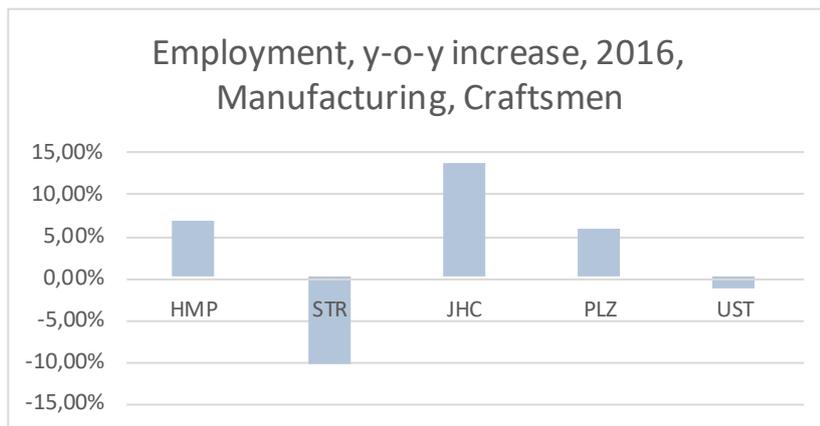
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Employment and median wage by occupation in manufacturing, regionally

**Manufacturing workforce in regions: Craftsmen/Repairers, Median Wage and Employment, 2011-2016**

In the 2011-2016 period, most positions for *Metal, machinery and related trades workers* were added in the **Plzeňský region** (an increase by 23.5% since 2011). On the opposite side, **Ústecký region** recorded an employment drop by 18.86% in the period. **South Bohemian region** experienced the highest median wage growth (by almost 20%) since 2011).

**Year-on-year in 2016**, *Metal, machinery and related trades workers* experienced the highest median wage growth (by 8.15%) in **South Bohemia**; with over 13% growth in the number of the positions in the region. In the **Central Bohemian region**, employment of *Metal, machinery and related trades workers* fell by 10.39% y-o-y, while wages grew by 3.6%.





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Employment and median wage by occupation in manufacturing, regionally

### Manufacturing workforce in regions: Machine operators and assemblers, Median Wage and Employment, 2011-2016

In the 2011-2016 period, *Stationary plant and machine operators* recorded employment drop in the **Prague** (-23.68%), **Plzeňský** (-18%) and **South Bohemian** regions (-3.5%), unlike in the **Ústecký** (20.37%) and **Central Bohemian** (10.44%) regions. *Lifting truck operators*' employment rose sharply in most of the regions covered by the report; in **Central Bohemia** (by 67%), **Ústecký region** (an increase by 64%, median wage growth by 35%), **Prague** (47%) and **South Bohemia** (45.8%, median wage growth by 55%), and 28% in the **Plzeňský region**. Also, in the **Plzeňský region**, the employment of *Manufacturing labourers not elsewhere classified* rose by 115% in the period. It dropped by 24% in **Central Bohemia** and 15% in **Prague** (median wage growth by 103% there) since 2011.

**Year-on-year** in 2016, *Assemblers* recorded the highest median wage growth (19.5%) in **Prague**, *Manufacturing labourers not elsewhere classified* in **South Bohemia** (16.75%), *Lifting truck operators* in the **Ústecký region** (8.91%), and *Stationary plant and machine operators* experienced the highest y-o-y increase in number in **Central Bohemia** (by 16%), while *Assemblers* and *Lifting truck operators*' employment rose the most in **South Bohemia** (31% and 25%, respectively). *Manufacturing labourers not elsewhere classified* added the most positions in the **Ústecký region** (+11% y-o-y).

